

BRIGHAM YOUNG
UNIVERSITY



Annual Catalog Issue
1922-23

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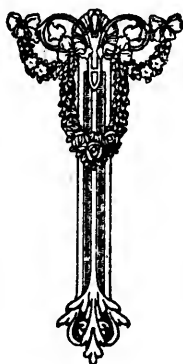


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Brigham Young University Quarterly

ANNUAL CATALOGUE
FOR THE SCHOOL YEAR
1922 ~ ~ ~ ~ 1923



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BRIGHAM YOUNG UNIVERSITY
PROVO, UTAH

1922

JANUARY							FEBRUARY							MARCH							APRIL						
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1923

JANUARY							FEBRUARY							MARCH							APRIL							
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University Calendar

1922

AUTUMN QUARTER

September 18 and 19—Registration of students.

September 20—Instruction begins.

October 5-9 (Thursday evening until Monday morning)—Conference recess.

October 16—Founder's Day Exercises.

November 29 to December 4 (Wednesday evening until Monday morning)—Thanksgiving recess.

December 8—Autumn Quarter closes.

WINTER QUARTER

December 11—Winter Quarter begins.

December 22 (Friday evening)—Christmas recess begins.

1923

January 8—School work resumed.

January 22-26—Leadership Week.

February 12—Lincoln Birthday exercises.

February 22—Washington Birthday recess.

March 16—Winter Quarter closes.

SPRING QUARTER

March 19—Spring Quarter begins.

April 5-9 (Thursday evening until Monday morning)—Conference recess.

May 30—Decoration Day recess.

June 3—Baccalaureate services.

June 8—Forty-seventh Commencement Exercises.

June 11—Summer Quarter begins.

Church School Officers

GENERAL CHURCH BOARD OF EDUCATION

HEBER J. GRANT	JOSEPH FIELDING SMITH
CHARLES W. PENROSE	DAVID O. McKAY
ANTHONY W. IVINS	STEPHEN L. RICHARDS
WILLARD YOUNG	RICHARD R. LYMAN
RUDGER CLAWSON	JOHN A. WIDTSOE
ORSON F. WHITNEY	

ARTHUR WINTER, Secretary-Treasurer

COMMISSION OF EDUCATION

JOHN A. WIDTSOE	STEPHEN L. RICHARDS
RICHARD R. LYMAN	

SUPERINTENDENT OF CHURCH SCHOOLS

ADAM S. BENNION

Authorities of the Brigham Young University

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THOMAS N. TAYLOR, Vice-President

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REED SMOOT	JOSEPH R. MURDOCK
LAFAYETTE HOLBROOK	JOSEPH REECE
JOSEPH FIELDING SMITH	ZINA Y. CARD
J. WM. KNIGHT	WILLARD YOUNG

EDWARD H. HOLT, Secretary-Treasurer

EXECUTIVE COMMITTEE

THOMAS N. TAYLOR

J. WM. KNIGHT

STEPHEN L. CHIPMAN

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President

GEORGE H. BRIMHALL, D.Sc.D., LL.D.,
President-Emeritus
Professor of Theology

ANTHONY W. IVINS,
Lecturer on Indian Traditions

JOSEPH FIELDING SMITH
Lecturer on Ecclesiastical History

JAMES E. TALMAGE, D.Sc., LL.D., F.R.S.E.,
Lecturer on Priesthood and Church Government

STEPHEN L. RICHARDS, LL.B.,
Lecturer on Social and Industrial Problems

RICHARD R. LYMAN, M.C.E., Ph.D.,
Lecturer on Community Building

JOHN A. WIDTSOE, Ph.D., LL.D.,
Lecturer on the Progress of Science

ADAM S. BENNION, M.A.,
Lecturer on Comparative Religion

JOHN C. SWENSON, M.A.,
Professor of Economics and Sociology
Acting Dean of the College of Education

CHARLES E. MAW, M.S.,
Professor of Chemistry

*The University Council consists of the President and all members of the Faculty with the rank of Professor, Associate Professor, and Assistant Professor.

ALFRED OSMOND, M.A.,
Professor of English

CHRISTEN JENSEN, A.M., Ph.D.,
Professor of History and Political Science

ELBERT H. EASTMOND, B.Pd.,
Professor of Art

AMOS N. MERRILL, M.S.,
Professor of Vocational Education

EUGENE L. ROBERTS, A.B.,
Professor of Physical Education

MARTIN P. HENDERSON, Ph.D.,
Professor of Biology
Dean of the College of Arts and Sciences

EDWARD H. HOLT, B.Pd.,
Professor of Office Practice
Secretary of the Faculty

ALICE L. REYNOLDS, A.B.,
Professor of English Literature

FRED BUSS, A.B.,
Professor of Geology

CARL F. ERYING, M.A.,*
Professor of Physics and Mathematics

VILATE ELLIOTT, B.Pd.,
Professor of Textiles and Clothing

ERNEST D. PARTRIDGE, B.S., C.E.,
Professor of Agricultural Engineering

BENJAMIN F. CUMMINGS, A.B.,
Professor of Modern Languages

ETHEL CUTLER, B.S.,
Professor of Home Economics

*On leave of absence.

THE FACULTY

9

CHARLES H. CARROLL, A.B., M.D.,
Medical Director

FLORENCE JEPPEPERSON
Professor of Music

HARRISON V. HOYT, M.B.A.,
Professor of Business Administration
Dean of the College of Commerce and Business Administration

THOMAS L. MARTIN, Ph.D.,
Professor of Agronomy

HUGH M. WOODWARD, Ph.D.,
Professor of Educational Administration
Dean of the Summer Session

MELVIN C. MERRILL, Ph.D.,
Professor of Horticulture
Dean of the College of Applied Sciences

L. JOHN NUTTALL, Jr., M.A.,
Professor of Elementary and Secondary Teaching
Director of Training Schools

T. EARL PARDOE,
Professor of Public Speaking

ROBERT SAUER,
Associate Professor of Music
(Wind Instruments)

BENT F. LARSON, M.A.,
Associate Professor of Art

M. WILFORD POULSON, M.A.,*
Associate Professor of Psychology

J. MARINUS JENSEN, A.M.,
Associate Professor of English

HORACE G. MERRILL, A.B., M.D., F.A.C.S.,
Associate Medical Director

*On leave of absence.

MARY J. OLLORTON, A.B.,
Assistant Professor Elementary Teaching

IDA S. DUSENBERRY, B.Pd.,
Assistant Professor of Elementary Education

HERALD R. CLARK, A.B.,
Assistant Professor of Finance and Banking

HERMESE PETERSON,
Assistant Professor of Elementary Teaching

WALTER P. COTTAM, M.A.,
Assistant Professor of Biology

J. W. ROBINSON, A.B.,
Assistant Professor of Business Law

CLAWSON Y. CANNON, B.S.,
Assistant Professor of Animal Husbandry

WILLIAM H. BOYLE, A.B.,
Assistant Professor of Education
Principal Secondary Training School

LOWRY NELSON, B.S.,
Director Extension Division

MURRAY O. HAYES, Ph.D.,
Assistant Professor of Geology

WILLIAM H. SNELL, A.B.,
Assistant Professor of Mechanic Arts

WILLIAM J. SNOW, M.A.,*
Instructor in History

HARRISON R. MERRILL, B.S.,
Instructor in English

JOHN E. HAYES,
Registrar

*On leave of absence.

THE FACULTY

11

ANNIE L. GILLESPIE,
Librarian

KIEFER B. SAULS, B.S.,
Secretary to the President
Purchasing Agent

REINHARD MAESER, A.B.,
Instructor in English

AMY LYMAN MERRILL, B.S.,
Dean of Women

OLGA WUNDERLY, A.B.,
Instructor in Modern Languages

FRANKLIN MADSEN,
Instructor in Music

PERCIVAL P. BIGELOW,
Instructor in Auto Mechanics

ELMER NELSON,
Instructor in Piano

ARETTA YOUNG, B.Pd.,
Instructor in Art

ALGIE EGGERTSEN BALLIF, A.B.,
Instructor in Physical Education

ALVIN TWITCHELL, B.S.,
Instructor in Physical Education

BERTHA ROBERTS,
Instructor in Shorthand and Typewriting

THOMAS C. ROMNEY, M.A.,
Instructor in History

FRANKLIN Y. GATES, B.S.,
Instructor in Chemistry

BLANCHE MENDENHALL, B.S.,
Instructor in Textiles and Clothing

NEWBERN I. BUTT, B.S.,
Instructor in Extension Division

EFFIE WARNICK, B.S.,
Instructor in Foods and Nutrition

ALENE PHILLIPS,
Instructor in Violin

C. LA VOIR JENSEN,
Instructor in Training School

INA JOHNSON,
Instructor in Training School

FANNIE McLEAN, B.Pd.,
Instructor in Training School

PEARL SNOW,
Instructor in Training School

EMMA SHARP,
Instructor in Training School

CORDELIA ANDERSON,
Instructor in Training School

HAZEL BROCKBANK,
Instructor in Training School

RAMONA FARRER,
Instructor in Training School

MARGUERITE JEPPEPERSON,
Instructor in Training School Music

GEORGE W. FITZROY,
Special Instructor in Piano

EDWARD P. MAYHEW,
Special Instructor in Violoncello

ANNA OLLORTON,
Assistant Librarian

THE FACULTY

13

FLORENCE NEWELL,
Assistant in Typewriting

A. RAY OLPIN,
Assistant in Mathematics

J. STEWART WILLIAMS,
Assistant in Physics

ELLA LARSON BROWN,
Assistant Librarian

A. REX JOHNSON,
Assistant in Office Practice

BESSIE E. GOURLEY,
Assistant in Art

BRIGHAM T. HIGGS,
Superintendent of Buildings and Grounds

J. W. SAULS,
Assistant Superintendent of Buildings and Grounds

STANDING COMMITTEES

The President is *ex-officio* a member of all committees.

Admission and Credits.—L. John Nuttall, John E. Hayes.

Aiding Graduates to Obtain Employment.—K. B. Sauls, The Deans.

Alumni Directory.—J. E. Hayes, Annie Gillespie, Anna Ollorton, Olga Wunderly.

Athletics.—E. L. Roberts, J. Wm. Knight, President of Student Body, President of Alumni Association, H. R. Merrill, C. L. Jensen.

Attendance and Scholarship.—M. P. Henderson, B. F. Cummings, C. Y. Cannon, Mrs. Amy L. Merrill.

Awards and Prizes.—T. Earl Pardoe.

Care of Girls and Women's Activities.—Alice L. Reynolds, Margaret H. Eastmond, Algie E. Ballif, Vilate Elliott, Ethel Cutler, Lydia Hasler Candland, Dean of Women.

Catalogue and Other Quarterlies.—E. H. Holt, J. M. Jensen, E. H. Eastmond, J. E. Hayes, K. B. Sauls.

Debating.—Christen Jensen, J. C. Swenson, T. E. Pardoe, H. V. Hoyt.

Divisions Classification.—M. O. Hayes, A. N. Merrill, H. V. Hoyt.

Eligibility.—B. F. Cummings, J. E. Hayes.

Graduate Work.—C. Jenson, M. C. Merrill, H. M. Woodward.

Graduation.—Fred Buss, Thomas L. Martin, C. E. Maw.

Health and Habits of Students.—Dr. C. H. Carroll, E. L. Roberts, Ethel Cutler, Mrs. Amy L. Merrill.

Lectures and Musicals.—J. C. Swenson, Herald R. Clark.

Library.—Alice L. Reynolds, G. H. Brimhall, M. C. Merrill, Librarian.

Petitions.—C. Y. Cannon, E. D. Partridge, J. E. Hayes.

Publicity.—H. R. Merrill, Lowry Nelson, J. M. Jensen, E. H. Holt, K. B. Sauls, E. L. Roberts, W. P. Cottam.

Schedule of Events.—K. B. Sauls.

Schedule of Classes.—E. H. Holt.

Social Affairs.—E. L. Roberts, T. Earl Pardoe, Wm. H. Boyle.

Student Accommodations.—W. H. Boyle, B. F. Larsen, F. Y. Gates.

Student Aid and Employment.—E. D. Partridge, Vilate Elliott, T. C. Romney.

Supervision of Student Publications.—Lowry Nelson, Alfred Osmond, E. H. Eastmond.

Brigham Young University

HISTORICAL

The Brigham Young University, formerly designated the Brigham Young Academy, was founded by a deed of trust executed by President Brigham Young, October 16, 1875.

It is in charge of twelve trustees, elected triennially, by the vote of the Latter-day Saints, acting through the First Presidency of the Church of Jesus Christ of Latter-day Saints.

For many years it was dependent upon fees and the proceeds of the original endowment for its support, but in recent years an annual Church appropriation has been the chief source of its financial support.

The first home of the institution was a mercantile building, standing on the present location of the Farmers and Merchants Bank. The upper story of the building had been used for an amusement hall.

Subsequently, this building, with several additions, was destroyed by fire. The school, however, resumed its sessions with the loss of but one day. The basement of the stake tabernacle, a store, and the First National Bank building housed the school for a short time.

From these temporary quarters it moved into the upper story of the Z. C. M. I. warehouse, a building adjoining the railroad station at the corner of Sixth South street and University avenue. This was the home of the school for six years.

From the warehouse the school moved into a \$75,000 brick building erected from church appropriations, supplemented by donations from the general public, the student body, the faculty, the alumni association, and gen-

erous patrons. This building is now known as the Education building.

To the Education building was added the College building, the upper story of which is an assembly room known as College Hall. The College building was the gift of ten persons, whose names are found upon a marble tablet in a hall of the building. It was equipped by friends and the faculty.

The needs of the Training School were provided for by the erection of a three-story building, the upper story of which is used for a men's gymnasium. The cost of the structure was \$35,000 contributed by friends, chief among whom was "Uncle" Jesse Knight.

The Art building came to the institution by general subscription from the five stakes comprising at that time this academic district.

The Alumni Association, in honor of the father of the faculties, presented the institution with the Maeser Memorial. The cost of the building was \$112,000. The heating plant and furnishings were supplied by the Church.

The Iron Work building was erected and furnished by contributions.

The Women's Gymnasium, which is also a recreation building, was paid for from receipts made by judicious investments of the Board and Church appropriations. The building cost \$35,000.

The new Mechanic Arts building came to the school through Church appropriations.

The first campus of the school was limited to a small play ground back of the building which was destroyed by fire. The Education building was erected in the center of a block 24 by 24 rods. Here the trees which have grown into groves, the lawns, the flowers, and the shrubbery was planted by the students and the faculty. The putting in of paved walks was a joint effort of students and patrons. Among the patrons, the Jex family and Lafayette Holbrook deserve special mention.

Then came the purchase of Temple Hill. As early as 1904 steps were taken to acquire land on this site. A

purchase of seventeen acres was made from Provo City. A gift of something over seven acres came from the Fourth ecclesiastical ward of Provo; part of an acre was purchased by an alumnus, and the point of the hill by the student body. The remaining area, comprising the present campus of 38 acres, was purchased by the Brigham Young University.

On February 11, 1909, by an action of the General Church Board of Education the collegiate department of the University was designated The Church Teachers' College.

The first credential granted by the institution was a teachers certificate given on the completion of one year's normal work. This was followed by a certificate requiring two years' normal work, followed later by the degree of Bachelor of Pedagogy, issued upon the completion of four years' normal work.

For a brief period the Bachelor of Arts degree was issued for seven years' work, but later the standard college requirements were made, calling for four years' high school work and four years' college work. Master degrees have been authorized for the past six years.

The first faculty consisted of the principal and two assistants, Dr. Karl G. Maeser, Dr. Milton H. Hardy, and Kristina Smoot. The faculty now numbers eighty-eight.

The student body has beautified the grounds, dug sewer trenches, cleared forty acres of sage brush land, fenced the campus, built the track, erected the grand stand, equipped the Men's Gymnasium, purchased the point of Temple Hill, put the "Y" on the mountain side, paid for five acres of campus extension, built in the main the pony trail to Maple Flat, assisted in the building of the boulevard to Provo canyon, and has turned out en masse to help the farmers of the vicinity save their crops from the frost. It has also added many hundreds of volumes to the library.

Five of the ten persons who are responsible for the building of the College building are members of the Alumni Association, as also are many of the purchasers

of the tableted chairs in College Hall. The great feat, however, of the association was the building of the Maeser Memorial.

The faculty has taught on part pay to carry the school over a financial crisis, purchased a thousand dollars' equipment for a physical laboratory, paid the major part of the cost of the heating plant of the collegiate building, and added thousands of volumes to the library.

The members of the Board of Trustees have pledged their private fortunes to secure the financial prosperity of the school; they have led in contributions for its support; and they have initiated and carried out enterprises and made investments which supplied pressing needs. All this service has been gratuitous.

At the begining of the school year 1920-21, the name Church Teachers' College was changed to School of Education, and the School of Arts and Sciences was established.

April 26, 1921, President George H. Brimhall retired as President of the University and was made President-Emeritus. On the same date, Dr. Franklin Stewart Harris was appointed president, these changes going into effect July 1, 1921.

During 1921 a college of Commerce and Business Administraton was organized and courses leading to a degree of Bachelor of Science outlined. The names School of Education and School of Arts and Sciences, were changed to College of Education and College of Arts and Sciences.

October 17, 1921, a fund was established by the Relief Society of the Church in honor of Emmeline B. Wells to be lent to worthy women of the upper college classes who need financial help in order to complete a College course.

January 25, 1922, a College of Applied Science was established to include the departments of Agricultural Engineering, Agronomy, Animal Husbandry, Art, Auto Mechanics, Drafting, Foods and Nutrition, Horticulture, Household Administrtion, Textiles and Clothing, and Woodwork

ORGANIZATION

The Brigham Young University as now organized comprises :

- 1. A College of Applied Science.
- 2. A College of Arts and Sciences.
- 3. A College of Commerce and Business Administration.
- 4. A College of Education.
- 5. An Extension Division.
- 6. A Graduate Division.
- 7. A Research Division.

An Elementary Training School and a Secondary Training School are maintained in connection with the College of Education. Vocational courses are offered in the Secondary Training School for mature persons not ready for college work.

DEPARTMENTS OF INSTRUCTION

- Accounting and Business Administration.
- ~~Agricultural Engineering.~~
- ~~Agronomy.~~
- ~~Animal Husbandry.~~
- ~~Art.~~
- Biology.
- Chemistry.
- ~~Drafting.~~
- Economics.
- Educational Administration.
- Elementary Teaching.
- English.
- Finance and Banking.
- ~~Foods and Nutrition.~~
- Geology and Geography.

History.

Horticulture.

Household Administration.

Mathematics.

Mechanic Arts.

Modern Languages and Latin.

Music.

Office Practice.

Physical Education.

Physics.

Political Science.

Philosophy of Education.

Psychology.

Public Speaking.

Secondary Teaching.

Sociology.

Textiles and Clothing.

Theology.

Vocational Education.

CLUBS AND SOCIETIES

AGRICULTURAL CLUB

This is an organization consisting of all students of Agriculture, the purpose being to meet and receive instruction from men who have succeeded practically and scientifically in the agricultural work of the State. Meetings are held every alternate Wednesday afternoon. Social functions in conjunction with the Food and Dietetics department are featured during the year.

ART SERVICE CLUB

This organization has been established for the benefit of students having special talent in any particular phase of fine and applied art. Students become life members on entrance and remain such as long as advancement is shown by them. During the year, lectures on practical topics in connection with arts and crafts are given by

members of the faculty, and other recognized educators. Exhibitions of artists' and of craftsmen's work are held under the auspices of this organization. Various projects for developing an appreciation of professional expression are promoted.

ART SUPERVISION ASSOCIATION

This organization consists of the normal students of fine and applied arts, which have been graduated by this institution; also of prospective graduates in these lines. The purpose is the special advancement of this particular line of educational work.

B. Y. U. WOMEN'S ORGANIZATION

This organization consists of the women who are teaching in the University, and the wives of faculty members. Its purpose is to foster the ideals of the institution and to help furnish wholesome recreation and social amusements for the faculty.

THE DRAMA LEAGUE

The purpose of this league is to foster the art of reading and dramatics, to appreciate paintings and music, and to give opportunity to its members, to hear lectures and readings from the best talent of the State as well as those who are on the lecture platform and the stage. The society meets twice a month, and is affiliated with the Drama League of America.

FRENCH, SPANISH, AND GERMAN CLUBS

Teachers and students interested in the study of French or Spanish or German are organized into clubs. These clubs meet twice a month and enjoy programs of songs, talks, reports, games, etc., in which the foreign language is the medium of speech. These gatherings afford more freedom and informality than the work of the classroom. The clubs are in the fullest sense student

organizations. Membership is open not only to students but also to all people within easy reach of the University who have studied or are studying the modern languages. A splendid opportunity is afforded for enjoying the true foreign atmosphere. Membership privilege is especially extended to people of the community of French, German or Spanish or Spanish-American birth.

HOME ECONOMICS CLUB

This club is organized to create a professional spirit among the students of Home Economics. Regular meetings are held at which interesting lectures are given. Social activities are fostered. All girls registered for Home Economics are eligible for membership.

THE LITERARY CLUB

The purpose of this organization is to develop greater appreciation of good literature and to give opportunity for practice in oral and written expression. Carefully prepared lectures on literary topics and dramatic readings will be given by advanced students, members of the English faculty, and others.

THE MUSIC SOCIETY

This society meets conjointly with the Drama Center and alternately furnishes programs of varied musical importance. Leading musicians of the State will augment local talent in producing some of the world's greatest music. Membership in this society entitles admittance to all Drama Center activities.

YOUNG COMMERCIAL CLUB

This Club is a student organization devoted to the development of good fellowship among the business students. Luncheons and programs are given at regular intervals during the school year at which prominent business and professional men of the inter-mountain country

are the principal speakers. All students of the College of Commerce and Business Administration are eligible for membership.

THE GRADUATE CLUB

This club is an organization of the students of the Brigham Young University who are pursuing graduate study. The purpose of the organization "shall be to foster fellowship among its members; to stimulate a desire for higher learning; to assist in finding and developing leadership in the communities; and to use every effort to encourage men and women of the inter-mountain region to attend the Brigham Young University." A student becomes a member automatically upon registration in the graduate division.

LYCEUM COURSE

For many years the University has maintained a lyceum course which has brought to the school distinguished artists and lecturers from America, England, and other parts of the world. During the past year the following appeared on the course:

Leopold Godowsky, Pianist; Barbara Maurel, Contralto; Edward Gruppe, Cellist; Charles Zeublin; The Cherniavisky Trio; David Starr Jordan; Katherine Ridgeway, Dramatic Reader; and Edward A. Steiner.

SCHOLARSHIPS AND AWARDS

Maria Y. Dougall Scholarship.—A scholarship for girls, representing the annual entrance fee.

Eilza A. Woolacott Scholarship.—A scholarship for girls, representing the annual entrance fee.

The Provo Chamber of Commerce Medal.—The Provo Chamber of Commerce presents annually a gold medal to the most efficient student in the University, based upon scholarship, social status and public service.

The Elsie Chamberlain Carroll Medal.—Mrs. Elsie

Chamberlain Carroll presents annually a gold medal to the student (girl) of the University writing the best short story.

The Adams Gold Medal.—Mr. and Mrs. Walter Adams present annually a gold medal to the student who renders best two selected compositions on any stringed instrument other than the piano. One selection is to be by an American composer, the other by a recognized artist.

The Taylor Gold Medal.—Mr. Lester R. Taylor presents annually a gold medal to the student who renders best a piano selection, the composition to be by a recognized artist.

The Pardoe Gold Medal.—Professor and Mrs. T. Earl Pardoe present annually a gold medal to the student rendering the best selection on any wind instrument. One selection is to be by an American composer, the other by a recognized artist.

The Woolley Gold Medal.—Miss Mary Woolley presents annually a gold medal to the student giving the best rendition of a humorous reading.

The Anderberg Gold Medal.—Anderberg, Inc., offers annually a gold medal for the most efficient athlete. Efficiency is based upon participation in athletics, scholarship, and social activity.

The Sina N. Chipman Gold Medal.—Mrs. Sina N. Chipman offers annually a gold medal to the registered art student for the best painting of Mount Timpanogos.

The Talmage Prize.—Dr. James E. Talmage offers a cash prize of Twenty-five Dollars to the student who writes the best essay on some religious topic.

LOAN FUNDS

The Emmeline B. Wells Relief Society Loan Fund.—In honor of Emmeline B. Wells, the General Board of the Relief Society has established a loan fund to assist young women to complete their school work. The Deans' Council passes upon all applications for loans.

Student Loan Fund.—The Sophomore class of 1922

established a loan fund to assist students to complete their school work. This fund will be added to each year, the Sopohomore class assuming the responsibility for making an annual addition. The lending of this fund is also under the supervision of the Deans' Council.

THE STUDENT BODY

This organization encourages and unifies the activities of the students in their interclass competitions, their competitions with other schools, and in their efforts to advance the interests of the University. Through this organization the students publish the school periodicals and also the University year book, the "Banyan." The forensic activities of the students are fostered by and are under its management. The organization also functions as an auxiliary of the school discipline.

STUDENT BODY PRIZES AND AWARDS

The Jex Gold Medal is awarded annually for the best oration on any subject. This medal is presented by the Jex family.

The Kirkham Medal, a gift of Francis W. Kirkham, given to those students who are members of the inter-collegiate debating teams.

The Student Body Gold Medal, offered by the Student Body, is awarded annually for the best oration on any subject, given at the Thanksgiving exercises. It is open to all students except those who have previously won honors in debating or oratory.

The Special Student Body Gold Medal is presented for the best oration on any subject. It is open to all students.

The Dixon Silver Cup is presented for the best extemporaneous speech. It is given annually by Mr. Rulon Dixon.

The Dr. Horace G. Merrill Silver Loving Cup is awarded to the student of the University who shall attain first place in the annual Cross Country Run, held

immediately preceding the Thanksgiving recess. Should any student win first place more than twice, the cup becomes the permanent property of the individual.

ACCOMMODATIONS

The University emphasizes the value of home life and the people of Provo have shown great educational patriotism in providing for the comfort and convenience of students. If patrons will make their wants known in advance, much delay in getting students properly located will be avoided.

The price of accommodations at private homes varies as it does at hotels and rooming houses, the rate depending upon what the student wants and his willingness to pay.

Provo is a city of modern homes. Its sidewalks and business centers are paved and no one need fear a lack of accommodations within easy access of the University.

DISCIPLINE

The standards of honor, Christian integrity, and Latter-day Saint ideals are required. Within these limits the students are given the fullest freedom. Those who fail to conform to these standards either in personal habits or association are subject to discipline.

The use of tobacco will not be permitted, and having improper associates or visiting places of questionable repute will not be tolerated.

All social functions given by any organization of the school are under the direction of the standing committee on socials. Any disciplinary announcement made by the executive of the institution becomes a part of these regulations. Violation of regulations makes the offender liable to suspension or expulsion.

Regular attendance is required at all recitations, laboratory and field work, and all absences therefrom must be explained to the instructors concerned. The Committee on Attendance and Scholarship has general

supervision of the disciplinary work of the institution. Students who are not doing satisfactory work will not be allowed to remain in the institution.

LIBRARY

The library contains about twenty thousand bound volumes, apart from the government depository and numerous pamphlets. In addition to local and State papers, the library contains the leading scientific and literary journals, both American and foreign.

Reciprocal relations are established with the Provo Public Library.

GENERAL REQUIREMENTS FOR UNDERGRADUATE WORK

ADMISSION

Classified Students.—Students will be rated as Classified at the time of entrance provided they present evidence in the form of an official transcript of credits that they have completed at least 15 units of approved high school work, or pass an examination in a sufficient number of subjects to make 15 units, and provided, in either case, they offer among these 15 units the following:

English	3 units,
A principal group	3 or more units,
The secondary group	2 or more units.

The principal and secondary groups may be selected from the following:

(1) Mathematics, (2) Science, (3) Social Science and History, (4) Industrial Arts and Commerce, (5) Modern Languages, (6) Music, Fine Art, and Public Speaking.

Classified Students only, may become candidates for a degree.

Unclassified Students.—Students will be rated tentatively as Unclassified at the time of entrance in case they are unable to furnish an official transcript of credit at that time, but are able to furnish evidence of their graduation from an approved high school. When an official transcript of credit is filed these students will be rated as Classified, Conditional College, or Special Students, depending on the nature of the credits.

Conditional Students.—Students who present evidence in the form of an official transcript of credits that they have completed 13 units of approved high school work may be admitted to the University as Conditional Students. They must register for secondary work in sufficient amount and of proper kind, to enable them to become Classified Students the following school year. The amount of College work which they may pursue will depend upon the extent of the high school deficiency. The sum of the number of twelfth units plus the number of quarter hours shall not exceed 16 for each quarter's registration.

Special Students.—Students of 21 years of age or over, who have not been graduated from high school, but who show ability to do special work may be admitted to the University as Special Students. Ability to do special work must be certified to by the heads of the departments concerned. These students may pursue any course for which they have sufficient foundation.

FEES

Regular Entrance Fee	\$25.00
Secondary Training School fee	25.00
Elementary Training School Fee	10.00
Student Activity Fee	10.00
Graduation Fee—Degree	10.00
Graduation Fee—Diploma	5.00

COURSE DIVISIONS

Undergraduate courses of study are divided into:

- (a) Lower Division.
- (b) Upper Division.

Lower Division courses are numbered in the catalogue from "1" to "49," Upper Division courses from "50" to "99." Graduate courses are given numbers above "100."

ELECTION OF STUDIES

The student, in electing his studies, should, with the advice and approval of the Dean of the College in which he registers, elect such studies as are desirable. The major and minor, as well as the general, requirements for graduation should be kept in mind in electing studies. Physical Education 11 (or 21 for Normals) is required of Freshmen. Sixteen hours of credit a quarter (which in the case of Freshmen must include physical education) is amount of work to be elected. Permission to register for additional work can be secured through petition only.

At least seventy-five hours of Lower Division work should be completed before a student registers for Upper Division courses, unless otherwise provided by the Committee on Division Classification. Included in the seventy-five hours of the Lower Division work must be English 1, 2, and 3; and for the A. B. degree, twelve hours of Foreign Language work. Two-thirds of each group requirement must be included in the Lower Division work, unless the Committee on Division Classification allows otherwise.

A student's standing from Lower Division to Upper Division work may be changed at the beginning of any quarter.

CLASSIFICATION OF STUDENTS

A regular student with fewer than forty-five hours credit at the beginning of the school year will be classed that year as a Freshman.

A regular student with more than forty-four hours credit and fewer than ninety at the beginning of the school year, will be classed during that year as a Sophomore.

A regular student with more than eighty-nine hours credit and fewer than one hundred thirty-five, at the beginning of the school year, will be classed during that year as a Junior.

A regular student with more than one hundred thirty-four credits at the beginning of the school year, will be classed during that year as a Senior.

CREDITS

A student may have credit entered on the books of the University as follows: 1. For work done in the regular courses offered by the institution. 2. For work done in an accredited college when such credit is to be used for graduation from the University, the amount to be determined by the committee on credit. 3. By passing a satisfactory examination in any course offered by the University under the supervision of the head of the department concerned. Credit in theology may be given for missionary work by complying with such requirements as may be prescribed. Credits from other institutions should be filed with the Registrar upon entrance.

Special examinations for advance credit will be given only with the consent of the head of the department concerned, the Dean of the College in which the student is registered, and the committee on credit.

A condition in any course of study must be removed within one year after such condition is incurred. Otherwise the course must be retaken in class if credit is desired.

A fee is charged for all special examinations.

GRADUATION

GENERAL REQUIREMENTS

Before a student can be admitted as a candidate for a diploma or a degree, his scholastic record must show that he has satisfied the entrance requirements, and that he can fulfill all the requirements for graduation on the completion of the courses for which he is registered.

At the time of graduation each candidate must be properly registered in the University, and must have completed at least forty-five hours of work in residence.

At least sixty hours of Upper Division work must be offered by students applying for graduation.

The number of hours of credit designated by "A" and "B" grades presented by each candidate shall at least equal the number of hours designated by a "D" grade.

Students who expect to be graduated at the end of the Spring Quarter should file application with their Deans not later than the beginning of the Winter Quarter. All conditions must be removed not later than ten days before graduation.

Students who fulfill all requirements for graduation at the close of the Summer School and who have filed application for graduation not later than thirty days preceding the close of the Spring Quarter may have their graduation certified to by the proper authorities of the University, but they shall not be publicly graduated until the annual commencement of the following year.

The University reserves the right to change the requirements for graduation. A candidate for graduation will be asked to comply with all changes which pertain to the uncompleted portion of his course. The University Council is the body authorized to prescribe requirements for graduation and to pass on candidates.

BACHELOR DEGREES

University Requirements.—Each candidate must meet the general requirements with respect to registra-

tion, residence, and scholarship and must also secure credit in approved courses amounting to one hundred and eighty-three hours of College work.

Prescribed Courses.—Each candidate must furnish credit in English 1, 2, and 3, and Physical Education 11. The candidate for the Bachelor of Arts degree must have at least 24 hours credit in a foreign language.

Group Requirements.—The group requirements shall be as follows:

- a. Mathematics and Physical Science. (Astronomy, Chemistry, Geology, Geography, Mathematics, Physics)—15 hours.
- b. Biological Science. (Biology, Physiology, Hygiene, Health Work, Sanitation)—10 hours.
- c. Social Science. (History, Political Science, Sociology, Economics, Psychology)—15 hours.
- d. English, 15 hours, including English 1, 2, and 3.
- e. Each Dean may require a student to register for 15 additional hours of work, the courses to be selected by the Dean according to the needs of the respective students.

Major Requirements.—Not later than the beginning of his Junior year a student should have selected some department in which he plans to do his major work. At the time of graduation he must have completed not fewer than thirty hours of work in this department, which must meet the conditions prescribed by the major professor as to distribution between Upper and Lower Division courses.

Minor Requirements.—Each candidate must present twenty hours in one or more allied subjects in the same College as collateral or minor work. The Dean will designate the courses required for this minor work.

GRADUATE DIVISION

Character of Graduate Work.—The essential aim of graduate study is to develop the power to do independent work and to encourage the spirit of research. Each candidate for a higher degree is expected to possess a broad, general knowledge of his major subject with less detail in the case of his minor subjects.

Fees.—The regular entrance fee is \$25; Student Activity fee, \$10; Graduation fee—Master's Degree, \$10.

Registration.—The registration of all students taking work for advanced degrees is to be made through the Committee on Graduate Work.

Students holding a Bachelor's Degree equivalent to those granted by the Brigham Young University will be admitted to graduate work without examination.

If at the end of any quarter of his Senior year a student has so far completed the requirements for the Bachelor's Degree that his course of study for the next quarter is not complete he may register, with the consent of the Committee on Graduate Work, for sufficient graduate work to complete his program.

Admission to graduate courses is granted only to those who have had the requisite undergraduate work in those courses or departments. In order adequately to determine this fact a student should file with the Committee on Graduate Work an official transcript of his undergraduate courses at the time that he registers for graduate study.

Each graduate student must submit his course of study and the title of his thesis to his major professor and the Committee on Graduate Work for approval. Changes in registration can only be made with their consent.

Admission to Candidacy.—Registration for graduate study does not admit a student to candidacy for a higher degree. A graduate student who has been in residence

one quarter or more, whose thesis subject has been approved, and who has given evidence of ability to do work of a graduate character may be admitted to candidacy by vote of the University Council. The mere accumulation of credits does not necessarily indicate ability to do graduate work. All applications for admission to candidacy for a higher degree should be made to the Committee on Graduate Work.

Requirements for the Master's Degree.—The Master's Degree (Master of Arts, M. A., or Master of Science, M. S., dependent upon the kind of undergraduate degree) may be granted to a student admitted to candidacy upon the completion of the following requirements: (a) The candidate must have been in actual residence in the University at least one half school year after securing a Bachelor's Degree, and must furnish 48 hours of graduate credit in addition to 183 hours of college credit, and 15 units of high school credit. (b) A thesis must be submitted based on work done in some field of investigation within the major department, and which must show evidence of independent research. The thesis must be accepted by the faculty of the major department, and must be completed at least 5 days before the final examination. (c) At least 15 days before graduation the candidate must pass an oral examination given by the faculty of the college in which his major department occurs, under the supervision of the Committee on Graduate Work. At least one member of this committee shall be present and preside at any examination given for a higher degree. The candidate shall furnish complete copies of his thesis to his major professor and to the chairman of the Committee on Graduate Work within 5 days of the final examination. (d) A bound typewritten or printed copy of the thesis must be furnished the University library. Before the degree is granted the candidate must file with the chairman of the Committee on Graduate Work a receipt to this effect from the Librarian. (e) Courses not listed as graduate work may not be used for a higher degree without the consent of the head of the department concerned and the Committee on

Graduate Work. A candidate for a Master's Degree must secure a grade of "B" or above in three-fourths of his graduate work. No grade below "C" will count toward a Master's Degree. An applicant for this degree must furnish at least one-half of his graduate credit in his major department. The remainder of the credit for this degree may be offered in one or two minor departments closely related to the major department unless the Committee on Graduate Work permits a different arrangement of program.

COLLEGE OF APPLIED SCIENCE

The aim of the College of Applied Science is to provide instruction in the scientific principles and technical operations pertaining to the farm, the home, the shop, and the professions, trades, and industries related to the same. Students may specialize in any one of the many fields of applied science and prepare for capable leadership and efficient service in their chosen lines.

Majors and minors may be selected from the following Departments in the College of Applied Science: Agronomy, Animal Husbandry, Horticulture, Agricultural Engineering, Foods and Nutrition, Textiles and Clothing, Household Administration, Drafting, Auto Mechanics, Woodwork, Ironwork, Art.

The work offered will be of standard collegiate grade and upon completion of the required amount of study in fundamental subjects, specialized courses, and related work a student may be granted the degree of Bachelor of Science.

COLLEGE OF ARTS AND SCIENCES

The primary purpose of the College of Arts and Sciences is to meet the needs of students who desire a broad and liberal education that will enable them to find and take their places in the complex civilization of today. Abundant opportunity is provided for those who have ambition for specialized study in engineering, medicine, or law; or who desire to train for religious, political, or social leadership. Preparation for original investigation in the fields of science is emphasized. Graduate students who have ambition for a higher degree will find this College rich in opportunity. Educational standards equal to those of other institutions are maintained so that transfer does not involve difficulty or loss of credit.

Students may select their majors and minors from any of the following departments in the College of Arts and Sciences: Art, Biology, Chemistry, Economics, English, Geology and Geography, History, Mathematics, Modern Languages and Latin, Music, Physical Education, Physics, Political Science, Psychology, Public Speaking, and Sociology. The Degrees Bachelor of Arts and Bachelor of Science are given to graduates of this College.

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

The purpose of the College of Commerce and Business Administration is to provide training for leadership in finance and industry. Courses are so arranged that students will be given the training that will best fit them for analyzing business conditions and for managing

industries as well as for efficiency in office administration. The Degree of Bachelor of Science is given to graduates from this College.

Majors and minors may be selected from the following departments: Finance and Banking, Accounting and Business Administration, Economics, and Political Science. Courses in the department of Office Practice may be used for a minor.

COLLEGE OF EDUCATION

The College of Education is one of the professional schools of the University. Its principal function is the training of teachers, supervisors, and superintendents. It aims to stress academic training as well as professional skill, since both are necessary to effective leadership in the school or the community. The College aims to meet the requirements of the Utah State Board for the various grades of elementary and high school certification.

The College of Education is made up of two constituent divisions, namely: The departments of academic instruction and the training schools.

The following departments are at present organized: Elementary Teaching, Educational Sociology, Philosophy of Education, Psychology, Educational Administration, Secondary Teaching, Vocational Education.

In addition to the foregoing departments for major and minor in the College of Education, students of this College may take a teaching major of thirty quarter hours in any department of the University, provided they take, also, at least thirty-six hours in professional educational subjects, six hours of which may be in such allied subjects as Sociology, Ethics, Civics, Logic, and Health Education.

Training Schools.—Two training schools are established. First, an elementary training school organized

for practice-teaching for those preparing for elementary school work. It consists of eight grades, each supervised by an expert teacher. Second, a secondary training school, which offers training in the four years of the high school, and gives ample opportunity for practice teaching to advanced students.

The Degrees of Bachelor of Arts and Bachelor of Science are given to graduates of this College.

The following diplomas are offered in the College of Education:

Teachers' High School Diploma.—Students who have completed a minimum of four years of College work, including thirty hours in the department of Education, four hours in Psychology, and six hours in subjects closely related to education, will be awarded a High School Teachers' Diploma, in connection with the Bachelor's or the Master's Degree.

The following courses in Education are prescribed to meet the professional requirements: Psychology, at least four hours, the remaining twenty-six hours in the following subjects or their equivalents: Science of Education, Secondary Education, Secondary Training, and Methods.

A recommendation from the major professor certifying scholastic fitness is a prerequisite to register for Secondary Training.

Students registering for Secondary Training should not register for more than a maximum of 15 quarter hours of work.

Normal Diploma.—Students who have completed two years' College work including forty-five hours in the department of Education, will be awarded a Normal Grammar Grade Diploma.

Arts Supervision Diploma.—Students who complete ninety hours of college work, including thirty hours in the department of Education and eighteen hours in the department of Art, may receive an Arts Supervision Diploma.

COURSES OF INSTRUCTION

ACCOUNTING AND BUSINESS ADMINISTRATION

Professor Hoyt
Assistant Professor Clark
Professor Eastmond

Lower Division Courses

1. **Preparatory Accounting.**—The object of this course is two fold: First, sufficiently to equip students in the theory and practice of modern bookkeeping that they may qualify as bookkeepers upon completion of the course. Second, to prepare students for entrance to higher work in accounting. The work is largely laboratory in nature. Up-to-date sets dealing with single proprietorships, partnerships, and corporations are used. Students having full high school credit in bookkeeping cannot receive credit for this course. Autumn, Daily, 2:30-4:30. Three hours credit. Assistant Professor Clark.

2. **Preparatory Accounting.**—Continuation of Course 1. Winter. Daily, 2:30-4:30. Three hours credit. Assistant Professor Clark.

3. **Preparatory Accounting.**—Continuation of Course 2. Spring. Daily, 2:30-4:30. Three hours credit. Assistant Professor Clark.

4. **Intermediate Accounting.**—Primarily a study of corporation accounting with special emphasis placed on problems of depreciation, bases of revaluation, inventorying, etc. Open to students who have had Accounting 1, 2, and 3, or the equivalent. Autumn. Daily, 9:30. Four hours credit. Assistant Professor Clark.

5. **Intermediate Accounting.**—Continuation of Course 4. Winter, Daily, 9:30. Four hours credit. Assistant Professor Clark.

6. **Intermediate Accounting.**—Continuation of Course 5. Spring. Daily, 9:30. Four hours credit. Assistant Professor Clark.

21. **Personal Efficiency.**—The purpose of this course is to train the student at the beginning of his college course to apply the fundamental principles of efficiency to his own life's work. The student will be given practice in scheduling, planning and standardizing his work and time. Autumn. T. Th., 10:30. Two hours credit. Professor Hoyt.

22. **Marketing and Advertising.**—A study of fundamental principles of marketing and advertising of raw and manufactured products, the object being to familiarize the student in general with fundamental principles of marketing and advertising. Designed to prepare for the advertising or merchandizing field. Autumn, M. W. F., 10:30. Three hours credit. Professor Hoyt.

23. **Marketing of Agricultural Products.**—A study of various marketing methods and agencies involved in the distribution of farm products from producer to ultimate consumer. The object is to enable the student to obtain a working familiarity with the service and cost of the service performed by the various marketing agencies and to furnish a ground work which will aid the student in choosing the most economical marketing procedure. Winter, M. W. F., 10:30. Professor Hoyt.

24. **Marketing Problems.**—Primarily a continuation of Course 23. dealing principally with practical marketing problems and market analysis. The object is to develop the student's ability to analyze and solve problems which confront sales managers and advertising

agencies. Course 23 a prerequisite. Spring, T. Th., 10:30. Two hours credit. Professor Hoyt.

25. Business Statistics.—This course deals with the fundamental principles of statistics and statistical indices and units. Students will be aided in making an investigation in some chosen field with a view of determining how far statistics may be used for foretelling general business conditions, as well as conditions which affect agricultural and other important industries. The object is to acquaint the students with the various primary statistics which are indices to future conditions. Spring, T. Th., 8:30. Two hours credit. Professor Hoyt.

31. Commercial Art.—See Art 14.

32. Commercial Art.—See Art 15.

33. Commercial Art.—See Art 16.

Upper Division Courses

50. Elementary Cost Accounting.—The purpose of this course is to familiarize the student with the fundamental principles of cost accounting, including a study of the various methods of accounting for overhead, labor, and material. A study will be made of the application of uniform cost systems, together with the requirements in the way of costs for various kinds of industries. Students are advised to take Course 61 along with this course. Courses 4, 5 and 6 in this department are prerequisites. Autumn, 9:30. Four hours credit. Professor Hoyt.

51. Advanced Cost Accounting.—This course is a continuation of course 50. Considerable individual field work will be required, together with the design of cost systems for various types of industries. Winter, 9:30. Four hours credit. Professor Hoyt.

52. Accounting Systems.—This course is designed

to prepare the student for entering the field of Industrial or Efficiency Engineering as installers of accounting systems or as executives for industrial concerns. Students will be required to do a large amount of individual field work and actually design cost accounting and bookkeeping systems suitable for manufacturers and business concerns. Course 51 a prerequisite. Spring, 9:30. Four hours credit. Professor Hoyt.

53. Auditing and Federal Tax Procedure.—This course has for its object the training of students who desire to become either Public Accountants or Chief Accountants for large corporations. Emphasis will be laid on the principles and practices involved in Public Accounting work. Ample opportunity will be afforded for the student to get practical experience by auditing the books and federal tax returns of various business concerns of Utah. Courses 4, 5, and 6, are prerequisites. Autumn, M. W. F., 8:30. Three hours credit. Professor Hoyt.

54. Auditing and Federal Tax Procedure.—Continuation of Course 53. Winter, M. W. F., 8:30. Three hours credit. Professor Hoyt.

55. Accounting Problems.—This course is designed to familiarize students with the solution of advanced accounting problems. Emphasis will be laid on American Institute of Accountants' Examination problems. Courses 53 and 54 prerequisites. Spring, M. W. F., 8:30. Three hours credit. Professor Hoyt.

61. Business Administration and Development.—This course covers the field of so-called Scientific Management as applied by Taylor, Cant, Emerson, and others. Stress will be laid upon those phases of scientific management which are applicable to local industries. Attention will also be called to the possibilities for industrial development in Utah. The object is to create an interest in the development of industries for which local

conditions are favorable, as well as to equip the student with a working familiarity with the fundamental principles of scientific management in order to enable him to enter the field of Industrial and Production Engineering. Considerable field work will be required as well as practical applications of certain phases of the work. Courses 50 and 51 should be taken along with this course. Autumn, 2:30. Three hours credit. Professor Hoyt. (Not given this year.)

62. Business Administration and Development.—A continuation of Course 61. Winter, 8:30. Four hours credit. Professor Hoyt. (Not given this year.)

63. Business Administration and Development.—A continuation of Course 62. Spring, 2:30. Four hours credit. Professor Hoyt. (Not given this year.)

65. Business Policy.—This course is designed to familiarize the student with practical every-day problems confronting business men. Business men will be procured to conduct the lectures and assign some of their own problems for the class to work out. The object is to prepare students to become assistants to managers. Winter, 8:30. Three hours credit. Professor Hoyt and outside lecturers. (Not given this year.)

AGRICULTURAL ENGINEERING

Professor Partridge

Lower Division Courses

These courses are designed to prepare students to solve the elementary mechanical and engineering problems which arise in rural life. Farmers are asked to send in their problems for solution.

11. Farm Mechanics.—Farm machinery, farm motors, and farm buildings, including a brief course in

elementary drafting. Practice is given in drawing simple plans, estimating cost and making lumber and material bills for all farm buildings. Autumn, 8:30. Five hours credit. Professor Partridge.

12. Roads, Irrigation and Drainage.—Rural roads. Earth, gravel, sand and clay roads, hard surfaced roads and road material. Irrigation and drainage systems, water distribution, irrigation methods, drainage practice, etc. Winter, 8:30. Five hours credit. Professor Partridge.

13. U. S. Methods of Land Subdivision.—Locating old corners, transfer of land by deeds, etc. Areas of different shaped parcels of land. Best methods of laying off lots and planting orchards, etc. During this quarter the class discusses any practical problems brought in by farmers. Spring, 8:30. Five hours credit. Professor Partridge.

AGRONOMY

Professor Martin

Assistant Professor Cannon

Lower Division Courses

1. General Agriculture.—This course is designed to meet the needs of all students no matter what their specialty, who desire general information regarding the field of agriculture. It is a foundation course for all students of agriculture. It will meet the needs of all normal students who will be required to teach some agriculture as a part of their daily program. Winter. Daily. Five hours credit. Professor Martin and Assistant Professor Cannon.

8. Farm Management.—See Accounting and Business Administration 22 (Marketing and Advertising.)

9. Farm Management.—See Accounting and Business Administration 25 (Business Statistics.)

10. Farm Management.—See Accounting and Business Administration 1 (Preparatory Accounting).

21. Cereal Crops.—The physiology of the plants will receive some attention, together with a general discussion of the origin, botanical characteristics, selections, improvement, cultivation, etc. Special emphasis will be placed upon a review of the results obtained at the various experiment stations throughout the world, the aim being to gain, not only theoretical material but much practical information obtained at great cost by the scientific investigators, whose whole time is being spent in the bringing to common knowledge the information of great value to the farmers. Autumn. Lectures M. W. F., 10:30. Laboratory period 2:30-5:30. T. Four hours credit. Laboratory fee \$1.00. Professor Martin.

22. Forage Crops.—History, cultivation, experiment station results, etc. Winter. Lectures M. W. F., 10:30. Laboratory period 2:30-5:30 T. Four hours credit. Laboratory fee \$1.00. Professor Martin.

23. Root Crops.—Sugar beets and potatoes receive special emphasis. Seed selection, testing, discussion of experiment station results, etc. Spring. M. W. F., 10:30. Laboratory period 2:30-5:30 T. Four hours credit. Laboratory fee \$1.00. Professor Martin.

Upper Division Courses

51. Soil Physics and Geology.—This course deals with the physical and chemical composition of soils, soil formation processes, classification of soil, soil colloids, chemical and physical properties of soil, and the relation of these to soil structure, texture and organic matter. Autumn. M. W. F., 9:30. Laboratory period Th. 2:30-5:30. Four hours credit. Laboratory fee \$1.00. Professor Martin.

52. Soil Fertility.—This is a continuation of course 51. It deals especially with availability of soil nutrients, alkali soils, soil bacteria, farm manures, green manures, etc. Winter. M. W. F., 9:30. Laboratory period Th. 2:30-5:30. Laboratory fee \$1.00. Four hours credit. Professor Martin.

53. Soil Management and Survey.—This is a continuation of courses 51 and 52. It deals especially with dry farming, irrigation, drainage, fall and spring plowing with their relation to an ideal seed bed. Considerable emphasis is placed upon the methods and significance of soil surveying. Spring. M. M. F., 9:30. Laboratory period Th. 2:30-5:30. Four hours credit. Laboratory fee \$1.00. Professor Martin.

68. Agricultural Chemistry.—See Chemistry 61.

Graduate Courses

101. Advanced Soils.—An advanced lecture course designed to acquaint the soil specialist with soil work, workers, and particularly with recent papers. M. W. F., 8:30. Three hours credit. Professor Martin.

102a. Soil Bacteriology.—A lecture course designed to acquaint the student with bacteria in relation to soil fertility. A study will be made of ammonification, nitrification, nitrogen fixation, relationships existing between the various types of soil flora in the soil together with factors influencing that relationship. Spring. M. W. 8:30. Text: J. E. Greaves Agricultural Bacteriology. Two hours credit. Professor Martin.

102b. Soil Bacteriology.—A laboratory course to accompany course 102a. It will consist of a study of methods used in bacteriological investigation. Prerequisites, Biology 21 and Chemistry 6. Laboratory fee \$3.50. Spring. W. F., 2:30-5:30. Two hours credit. Professor Martin.

103. Seminar.—Current agronomic literature, agricultural problems. Assigned topics will be discussed in the form of a round table discussion. One hour's credit. Professor Martin.

104. Research.—Open to properly qualified graduate students. Seniors specializing in Agronomy may elect research work from three to five hours. Time and credit to be arranged. Professor Martin.

ANIMAL HUSBANDRY

Assistant Professor Cannon

Lower Division Courses

1. Elementary Stock Judging.—This course consists of a study of the market types and classes of live stock. Field trips will be made to the various farms of the county where practice in scoring and judging of animals will be done. Autumn. 1:30. Three periods of three hours a week. Three hours credit.

2. History of Breeds.—All the breeds of live stock will be studied. Especial emphasis will be made on the condition under which the breeds were formed, the men who did the work, and their adaptability to Western conditions. Autumn, 10:30. Five hours credit.

3. Horse Husbandry.—This course is a consideration of the types and breeds, care, feed, and management of horses. Their origin, development, adaptability to Western conditions, and common ailments will be carefully considered. Autumn. T. Th., 9:30. Two hours credit.

4. Beef Cattle Husbandry.—This course is a consideration of the types and breeds, feed, care and management of beef cattle for Western conditions. The stu-

dent will be made familiar with the animals by frequent field trips. Autumn, T. Th., 9:30. Two hours credit.

5. Sheep Husbandry.—Types and breeds of sheep will be reviewed, followed by a study of the management, care and feeding of sheep, both on the range and on the farm. Winter. T. Th., 9:30. Two hours credit.

6. Swine Husbandry.—Types, breeds and management of swine and their place on Western farms. Emphasis will be made on their relation to dairy farming. Winter. T. Th., 9:30. Two hours credit.

21. Elements of Dairying.—A general survey of dairying and its relation to Utah agriculture; the secretion, composition, and properties of milk; the conditions that effect quantity and quality of milk; the Babcock test, the farm separator, the lactometer, methods of creaming, care of milk on the farm, uses of milk and its products as human food. Spring, 9:30. Four hours credit.

Upper Division Courses

51. Animal Breeding.—The aim of this course is to study the specific principles, practices and methods involved in the breeding and development of domesticated animals. Such topics as Mendelism in animals, transmission, heredity, value of pedigree, system of breeding, records, etc., are considered. Prerequisite, Zoology 68. Spring. M. W. F., 1:30. Three hours credit.

52. Animal Nutrition.—A study of facts, their compounds, and their digestion; the various uses to which each is put in the body. The best practices of feeding and the results of the different experiments will be investigated. Prerequisite, 1 year of Chemistry. Winter. 10:30. Four hours a week. Four hours credit.

53. Animal Nutrition.—Continuation of course 52. Spring. 10:30. Four hours credit.

71. Dairy Cattle Judging.—Stress will be laid on the various characteristics of the different dairy breeds. A comparative study of the score card requirements of each and comparative judging done. Trips will be made to the dairy farms of the county in order to handle typical animals of each breed. Prerequisite Animal Husbandry 1. Spring. 1:30. Two periods of three hours each a week. Two hours credit.

81. Milk Production and Secretion.—Evolution of the feeding standards. Methods of preparing feeds and feeding dairy cows. Principles of nutrition and their relation to milk secretion. Prerequisite, Animal Husbandry 21, Winter, M. W. F., 1:30. Three hours credit.

91. Dairy Survey.—A study of current literature and experiments in dairy work. Each student will be expected to make reports on various subjects in this field which will be discussed by the class. Winter, 9:30. One hour a week. One hour's credit.

ART

Professor Eastmond

Associate Professor Larsen

Miss Young

Mrs. Gourley

Lower Division Courses

1. Art Appreciation.—This general course aims to develop ability to interpret and appreciate art, and includes a literary study of the world's great art, and great artists; illustrated lectures; exhibits and study exercises from nature. The course correlates and helps to intensify the work taken up in fine art classes, in design, and also to assist the teacher in training. Autumn. Two hours credit. Miss Young, Professor Eastmond, Associate Professor Larsen.

2. **Graphic Expression.**—Plastic and graphic art expression introduced. Recitations and laboratory work. Winter. Two hours credit. Laboratory fee, \$1.00. Miss Young, Professor Eastmond, Associate Professor Larsen.

3. **Graphic Expression.**—Continuation of Art 1 and 2. Recitations and laboratory work. Spring. Two hours credit. Laboratory fee, \$1.00. Miss Young, Professor Eastmond, Associate Professor Larsen.

7. **Graphic Representation.**—Drawing in various mediums. Emphasis upon objective tone study in charcoal. Pictorial composition. Emphasis upon mass medium. Recitation and laboratory work. Autumn. Two hours credit. Laboratory fee, \$1.00. Professor Eastmond.

8. **Graphic Representation.**—Continuation of Art 7. Correlated perspective. Water color in connection with tone. Theory of color. Objective and subjective composition. Decorative treatment. Recitations and laboratory work. Winter. Two hours credit. Laboratory fee, \$1.00. Professor Eastmond.

9. **Graphic Representation.**—Continuation of Art 8. Objective painting in water color introduced. Spring. Two hours credit. Laboratory fee, \$1.00. Professor Eastmond.

11. **Elementary Water Color Painting.**—Still life representation. Pictorial composition and color study. Recitations and laboratory work. Laboratory fee, \$1.00. Autumn. Two hours credit. Miss Young.

12. **Elementary Water Color Painting.**—Continuation of Art 11. Recitations and laboratory work. Laboratory fee \$1.00. Winter. Miss Young.

13. **Elementary Water Color Painting.**—Continuation of Art 12. Recitations and laboratory work. Laboratory fee \$1.00. Spring. Two hours credit. Miss Young.

14. Commercial Art.—Show card writing. Poster art; advertising arrangement. Psychology of line, form and color. Autumn. One or two hours credit. Laboratory fee \$1.00. Professor Eastmond.

15. Commercial Art.—Continuation of Art 14. Recitations and laboratory work. Winter. One or two hours credit. Laboratory fee \$1.00. Professor Eastmond.

16. Commercial Art.—Continuation of Art 15. Recitations and laboratory work. Spring. One or two hours credit. Laboratory fee \$1.00. Professor Eastmond.

18. Process Illustration.—Methods of drawing and painting for illustration. Drawing for the various process methods of modern engraving. Practical illustration. Prerequisite, Art 7. Winter. Two hours credit. Laboratory fee \$1.00. Professor Eastmond.

19. Process Illustration.—Continuation of Art 18. Recitations and laboratory work. Spring. Two hours credit. Laboratory fee \$1.00. Professor Eastmond.

21. Theory and Practice of Design.—Rhythm, balance, harmony, and other foundational principles. Three recitations and one studio hour. Autumn. Two hours credit. Laboratory fee, \$1.00. Professor Eastmond, Associate Professor Larsen.

25. Domestic Art Design.—A study of line, proportion, and color applied to dress and needle craft. Original designs for decorative textile work. Prerequisite, Art 21. Winter. Two hours credit. Miss Young.

26. Domestic Art Design.—Continuation of Art 25. Original design for decorative textile work emphasized. Costume design. Spring. Two hours credit. Miss Young.

28. Home Planning and Applied Art.—Historic development of the house. Location and environment. Plan drawing. Effect of form, line, and color in decoration; correlated decorations. Required, Art 21. Two recitations, and one studio hour. Spring. Two hours credit. Laboratory fee, \$1.00. Professor Eastmond and Associate Professor Larsen.

29. Home Planning and Applied Art.—Continuation of Art 28. Recitations and laboratory work. Spring. Two hours credit. Laboratory fee, \$1.00. Professor Eastmond and Associate Professor Larsen.

32-p. Ceramic Art (China Painting).—Application of the various methods of design in the decoration of appropriate wares. Winter. One, or two hours credit. Special fee for private instruction. Prerequisite, Art 21. Mrs. Gourley.

33-p. Ceramic Art.—Continuation of Art 32. Emphasis on applied design. Spring. Time to be arranged. One, or two hours credit. Special fee for private instruction. Mrs. Gourley.

34. Color Design in Relation to Stagecraft.—A study of the fundamental principles of design and color, and the application of these principles to the planning of stage settings and costumes. Special attention will be given to interpretation of the drama through symbolism, movement, color composition, and lighting. This course will also correlate with the courses in dark-light design and batik dyeing, including the study of paints, dyes, materials for draperies and costumes, and model construction. Opportunity for practical work will be afforded. Autumn. One, or two hours credit. Laboratory fee, \$1.00. Professor Eastmond.

35. Scenery Painting.—Pictorial representation applied to the theatrical stage. Study of color as applied. Study of perspective, etc. Study of materials and medi-

ums. Practical scenery design and painting. Winter. One, or two hours credit. Laboratory fee \$1.00. Professor Eastmond.

38. Furniture Design.—Correlated with Mechanic Arts. The study of period furniture. The judging and selection of furniture. The making of furniture designs. Study of the proportions of the primary mass, major and minor divisions, the effect of vertical and horizontal lines, the problem of structural and applied decorations, the relationship of pattern and material. Required, Art 21. Recitations and laboratory work. Winter. M. W. F. 4:30. Two hours credit. Laboratory fee \$1.00. Associate Professor Larsen.

39. Architectural Design.—Historic style related to modern building. Style as determined by use, neighborhood harmony, individual taste and geometric conditions. The principles of design and the choice of color in relation to interior and exterior arrangement and decoration. The study of doors, windows, built-in furniture and moldings. Required, Art 21. Art 53 recommended as a prerequisite or parallel course. Recitations and laboratory work. Spring. M. W. F. 4:30. Two hours credit. Laboratory fee \$1.00. Associate Professor Larsen.

41. Normal Art.—This course is especially designed for teachers. Various phases of mass-drawing dealing with clay, paper, crayons, charcoal, water color, and pencil. Motif drawing, composition in dark and light and in color. Distance representation in tone, color and form. Illustrative drawing involving the study of perspective. Practical school room work correlated. Autumn. M. W. F. 2:30. Two hours credit. Laboratory fee \$1.00. Professor Eastmond.

42. Normal Art.—This course is especially designed for teachers. Motif drawing applied. Decorative landscape, lettering, adjustment of decorative form to geometric space, and geometric design. Design adapted to

practical school-room work; blackboard drawing and decoration. Work correlated with natural centers of interest. Stenciling, stick printing, block printing, batic, etc. Winter. Two hours credit. Laboratory fee \$1.00. Professor Eastmond.

43. Normal Art.—Continuation of Art 41 and Art 42. Spring. Two hours credit. Laboratory fee \$1.00. Professor Eastmond.

44. Normal Manual Training.—Construction and handicraft for primary grades and kindergarten. Clay work, paper construction, simple stenciling, stick printing, weaving, and thin wood construction. Work correlated with local industries, the home and various subjects of the school curriculum. Special attention given to method. Careful consideration of adopted courses of study. Autumn and Spring. Three hours credit. Laboratory fee \$1.50. Associate Professor Larsen.

46. Normal Manual Training.—Correlated construction and handicraft for grammar grades and junior high school. Clay modeling and construction, working, drawing, thin wood construction, branch work, native material basketry, book binding, weaving and other lines of constructive design. Practical method work with special emphasis on centers of interest. Autumn and Spring. Three hours credit. Laboratory fee \$1.50. Associate Professor Larsen.

47. Art Pageant Production.—Principles of art pageant composition. Symbolic representation. Nature pantomime and tableau picture study. Costuming and lighting. Property design and construction. Actual production. Autumn. Two hours credit. Laboratory fee \$1.00. Professor Eastmond.

48. Art Pageant Production.—Continuation of Art 47. Winter. Two hours credit. Laboratory fee \$1.00. Professor Eastmond.

49. **Art Pageant Production.**—Continuation of Art 48. Spring. Two hours credit. Laboratory fee \$1.00. Professor Eastmond.

Upper Division Courses

51. **History of Art.**—Historic development of formative influences. Religion and Art. Primitive art. Pre-Greek, Egyptian, Chaldean-Assyrian, Phoenician, Greek, Colonial, Roman, Pompeian, Byzantine, Saracenic, Romanesque, Gothic, and Renaissance. Autumn. Two hours credit. Professor Eastmond.

52. **History of Art.**—Continuation of Art 51. Winter. Two hours credit. Professor Eastmond.

53. **History of Art.**—Continuation of Art 52. Spring. Two hours credit. Professor Eastmond.

54. **Water Color Painting.**—(Advanced). Still life representation. Pictorial composition and color study. Recitations and laboratory work. Autumn. T. and Th. 2:30. Two hours credit. Laboratory fee \$1.00. Miss Young.

55. **Water Color Painting.**—Continuation of Art 54. Recitations and laboratory work. Winter. T. and Th. 2:30. Two hours credit. Laboratory fee \$1.00. Miss Young.

56. **Water Color Painting.**—Continuation of Art 55. Recitations and laboratory work. Spring. T. and Th. 2:30. Two hours credit. Laboratory fee \$1.00. Miss Young.

57. **Oil Painting.**—Objective landscape. Composition and color development; still life representation. Required Art 11, 12, 13. Autumn. M. W. F. 4:30. Two hours credit. Laboratory fee \$1.00. Professor Eastmond.

68. Oil Painting.—Continuation of Art 57. Recitations and laboratory work. Winter. M. W. F. 4:30. Two hours credit. Laboratory fee \$1.00. Professor Eastmond.

69. Oil Painting.—Continuation of Art 68. Spring. M. W. F. Two hours credit. Laboratory fee \$1.00. Professor Eastmond.

71. Studio Work.—Outline of work and other information pertaining to the course will be given by the professor of the department. Special attention is given to individual needs. Credit is given on the basis of three hours' work for one hours' credit. Required, Art 7, 8, 9 and 18, 19 or 64, 65, 66 or 67, 68, 69. Autumn. Time to be arranged. Two hours credit. Laboratory fee \$1.00 for each hours credit. Professor Eastmond, Associate Professor Larsen, and Miss Young.

72. Studio Work.—Continuation of Art 71. Winter. Time to be arranged. Two hours credit. Laboratory fee \$1.00 for each hours credit. Professor Eastmond, Associate Professor Larsen, and Miss Young.

73. Studio Work.—Continuation of Art 72. Spring. Time to be aranged. Two hours credit. Laboratory fee \$1.00 for each hours credit. Professor Eastmond, Associate Professor Larsen, and Miss Young.

85. Arts Supervision.—Method of teaching. Study of the educational possibilities of drawing, design and the industrial arts. Study of the adaptation of the materials and mediums of expression. Study of arts and manual training correlation. Winter. Two hours credit. Professor Eastmond.

BIOLOGY

Professor Henderson
Assistant Professor Cottam
Doctor Carroll
Doctor H. G. Merrill

BOTANY**Lower Division Courses**

12. General Botany.—The general structure of plants, together with the fundamental principles of growth, reproduction and physiological activity are considered. In the laboratory, leaves, stems, roots, flowers and fruits are studied with reference to form, structure and function, and this work is supplemented by simple greenhouse experiments on problems of food-production, storage, sap-flow and respiration. Autumn, M. W. F., 9:30, T. Th., 2:30. Five hours credit. Laboratory fee, \$3.00. Professor Henderson and Assistant Professor Cottam.

15. Field Biology.—The purpose of this course is to give the student a close acquaintance with our local plant and animal forms and their adaptability to biological study in the high school. Collection, preparation, and preservation of materials are emphasized. The subject matter will include: The characteristics and common names of fungi, algae, liverworts, mosses, ferns, and flowering plants with special emphasis on the spring flowers and weeds; insects; birds; and other small animals such as frogs, toads, snakes, lizards and rodents. Spring, two three-hour field and laboratory periods a week. Two hours credit. Time to be arranged. Laboratory fee, \$1.00. Assistant Professor Cottam.

21. General Bacteriology.—This course will consist of three lectures and two laboratory periods a week. The lectures will be less technical than the laboratory

work and may be taken separately for three hours credit if desired. Credit will not be given for laboratory work without the lectures, however.

The general characteristics of microorganisms will be taken up in a study of their relationship to every day life and the common industries. Winter. M. W. F., laboratory T. Th. Five hours credit. Laboratory fee, \$3.00. Doctor Carroll and Assistant Professor Cottam.

Upper Division Courses

50. Algae and Fungi.—A study of the morphology, life histories, classification and relationships of the main groups of algae and fungi. Special emphasis is given to local forms. Prerequisite, Botany 12. Autumn, two lectures and two three-hour laboratory periods a week. Four hours credit. Time to be arranged. Laboratory fee, \$3.00. Professor Henderson and Assistant Professor Cottam.

51. Liverworts, Mosses and Ferns.—A study of the morphology, life histories and relationship of the liverworts, mosses and ferns. Materials for laboratory study are selected from local forms as far as practicable. Prerequisite, Botany 50. Winter, one lecture and two three-hour laboratory periods a week. Three hours credit. Time to be arranged. Laboratory fee, \$2.00. Professor Henderson and Assistant Professor Cottam.

52. Seed Plants.—A study of the morphology, life histories, classification and relationship of the higher plants, special emphasis being given to local forms. Field work is an important feature. Prerequisite, Botany 12. Spring, one lecture and two three-hour laboratory periods a week. Three hours credit. Time to be arranged. Laboratory fee, \$2.00. Professor Henderson and Assistant Professor Cottam.

60. Plant Physiology.—A lecture and laboratory course in physiology of plants, covering such topics as

absorption, transpiration, synthesis of carbohydrates and proteins, digestion, translocation, respiration, growth and reaction of plants to stimuli. Prerequisites, Botany 12 and Chemistry 11, 12 and 13. Spring, T. Th., 10:30, M. W. F., 1:30-4:30. Five hours credit. Laboratory fee, \$3.00. Professor Henderson and Assistant Professor Cottam.

61. Plant Histology.—This primarily is a laboratory course in the technique of preparing, staining, and mounting of sections for microscopical examination. Some attention is given to a study of tissues and tissue systems. Prerequisite, Botany 12. Spring, M. W. F., 1:30-4:30. Three hours credit. Laboratory fee, \$3.50. Professor Henderson and Assistant Professor Cottam.

68. Pathogenic Bacteriology.—Prerequisite, Botany 21, including laboratory. The common types of disease producing bacteria will be studied in connection with problems of personal and public health, theories of immunity, etc. Lectures M. W. F., laboratory T. Th. Laboratory fee, \$3.50. Doctor Carroll and Assistant Professor Cottam.

70. Diseases of Cultivated Plants.—The important groups of disease producing organisms are considered. Life histories and habits of these parasites are emphasized as a basis for understanding methods of control. Seed treatments are demonstrated and their relative efficiency discussed. Characteristic symptoms of our common plant diseases are studied in laboratory and field, and a representative collection is required of each student. Prerequisites Botany 12 and 21. Autumn, T. Th., 8:30; M. F. 9:30-11:30. Four hours credit. Laboratory fee, \$2.50. Professor Henderson and Assistant Professor Cottam.

71. Methods in Plant Pathology.—This course is devoted primarily to the technique of handling plant parasites. Such topics as preparation of culture media,

isolation and culture of disease-producing organisms and inoculation of parasites into host plants are considered. Prerequisites, Botany 70, and Chemistry 11, 12 and 13. Winter, two lectures and two three-hour laboratory periods a week. Four hours credit. Time to be arranged. Laboratory fee, \$3.50. Professor Henderson and Assistant Professor Cottam.

ZOOLOGY

Lower Division Courses

11. **General Zoology.**—This is an introductory course in which laboratory study of representative forms serves as a basis for discussion of structure, physiological activity, life history and habits of animals. Economic relations are emphasized and when practicable, economic forms are selected for laboratory demonstrations. Winter, M. W. F., 9:30. T. Th., 1:30-4:30. Five hours credit. Laboratory fee, \$3.00. Professor Henderson and Assistant Professor Cottam.

13. **Heredity and Eugenics.**—The early part of the course is devoted to the cell, its development and inheritance, the distinctions between soma and germplasm and maturation division as a basis for understanding the principles of variation, generation and heredity. Facts and theories of heredity are discussed and recent experimental data are examined. Emphasis is given to consideration of factors involved in the development and well-being of the human family. Prerequisite, Botany 12, or Zoology 11. Spring, Daily, 9:30. Five hours credit. Professor Henderson.

20. **Hygiene and Sanitation.**—(Health Work) Designed to meet state requirements in health education. The early part of the course is devoted to fundamental physiological processes such as digestion, circulation, respiration and excretion, and upon these as a foundation are based studies of personal hygiene, hygiene of the

school child, sanitation of school buildings, and surroundings, public and home sanitation, and recognition of defects in children. As far as practicable all phases of the work are intensified and made practicable by laboratory experiments and demonstrations. Winter and Spring, M. W. F., 10:30; T. Th., 1:30-3:30: Four hours credit. Doctor Carroll and Doctor Merrill.

Upper Division Courses

65. Human Physiology.—This course is designed to give the student a working knowledge of the life processes as they function in man. The properties of living matter will be studied as a basis for understanding the mechanism of the specialized systems such as the muscular, secretory, excretory, circulatory, respiratory, nervous, and reproductive systems which will be taken up in order. Prerequisite, Zoology 11. Spring, M. W. F., 8:30, laboratory T. Th., 1:30-3:30. Four hours credit. Doctor Carroll and Assistant Professor Cottam.

66. Sex Education.—This course deals primarily with materials and methods involved in the presentation of the problems of sex in the school, but is equally valuable to those concerned with these problems in the home. Emphasis is given to the collection and adaptation of local materials for laboratory study. Spring, two recitations and one three-hour laboratory period a week. Three hours credit. Laboratory fee, \$2.00. Professor Henderson and Assistant Professor Cottam.

Graduate Courses

101. Cytology.—This course together with Botany 102 and 103 constitute a year of work in the intimate study of the cell and its activities. Subjects such as the following are discussed: Organization and behavior of the cytoplasm, chromosome reduction and segregation in the process of pollen formation and in the development of the embryo sac, spermatogenesis, oogenesis, fer-

tilization, apogamy, apospory, zenia, determination of sex, hybridization, etc.

The laboratory work offers practice in methods of fixing, sectioning and staining of plant tissue, and also serves to illustrate certain features of the lecture work. Laboratory fee \$5.00. Prerequisites Botany 50, 51, 52 or their equivalents. Autumn. Two lectures and two three-hour laboratory periods per week. Four hours credit. Professor Henderson and Assistant Professor Cottam.

102. Cytology.—Continued. Winter. Credit and fees same as course 101. Professor Henderson and Assistant Professor Cottam.

103. Cytology.—Continued. Spring. Credit and fees same as course 101. Professor Henderson and Assistant Professor Cottam.

105. Research.—Open to properly qualified graduate students. Registration only after consultation. Professor Henderson and Doctor Carroll.

CHEMISTRY

Professor Maw
Mr. Gates

Lower Division Courses

1. General Inorganic Chemistry.—This is an introductory course, intended for students who have not had high school Chemistry. The principles and theories of Chemistry are studied in connection with the non-metals. It should be taken as a foundation for other sciences and especially Domestic Science. Autumn. Two recitations and two laboratory periods, 9:30. Four hours credit. Professor Maw and Mr. Gates.

2. General Inorganic Chemistry.—Continuation of course 1. Winter, 9:30. Four hours credit. Professor Maw and Mr. Gates.

3. General Inorganic Chemistry.—Continuation of course 2. It deals with the metals. Spring, 9:30. Professor Maw and Mr. Gates.

4. General Inorganic Chemistry.—Open only to those students who have had high school Chemistry. Two recitations and two two-hour laboratory periods. Class demonstrations may take the place of the laboratory on certain days. Autumn, M. W., 10:30. Four hours credit. Professor Maw and Mr. Gates.

5. Qualitative Analysis.—Autumn, T. Th., 1:30. Winter, T. and Th., at 1:30, and three laboratory periods to be arranged. Four hours credit. Professor Maw and Mr. Gates.

6. Elementary Quantitative Analysis.—Recitation T. and Th., 9:30. Laboratory periods to be arranged. Four hours credit. Professor Maw and Mr. Gates.

7. Elementary Organic Chemistry.—This course will take up the simple organic compounds, investigating the chemical behavior, the characteristic reactions, and the relationship of the different classes of organic compounds. Winter, M. W. F., and two laboratory periods to be arranged, 10:30. Four hours credit. Professor Maw.

Upper Division Courses

51. Advanced Qualitative Analysis.—Spring, 8:30. Four hours credit. Professor Maw.

52. Quantitative Analysis.—Continuation of Chemistry 6. Autumn, Winter, or Spring. Laboratory periods to be arranged. Four hours credit. Professor Maw.

53. Quantitative Analysis.—Continuation of course 52. Autumn, Winter or Spring. Four hours credit. Professor Maw.

54. Mineral Analysis.—Systematic analysis of representative minerals. Autumn, Winter, or Spring. From two to ten hours credit according to amount of work done. Professor Maw.

55. Fire Assaying.—Crucible and scorification methods for gold and silver ores. Spring, time to be arranged. Two hours credit. Professor Maw.

56. Special Methods.—The following courses may be taken any quarter, the time to be arranged for with the professor.

a. **Water Analysis.**—Two hours credit.

b. **Food Analysis.**—Two hours credit.

c. **Electrolytic Analysis.**—Two hours credit.

d. **Steel Analysis.**—Two hours credit.

e. **Analysis of Soils and Agricultural Products.**
—Two hours credit. Professor Maw.

62. Organic Chemistry.—Continuation of Chemistry 7. Spring. Three hours credit. Professor Maw.

66. Physiological Chemistry.—This course is especially designed for students doing advanced work in Domestic Science. The chemistry of nutrition, digestion, absorption, assimilation, and excretion will be considered in detail. The general elementary Chemistry is a prerequisite. Autumn, M., and two two-hour laboratory periods. Three hours credit. Professor Maw.

71. Physical Chemistry.—Winter, T. Th., and two laboratory periods, time to be arranged. Four hours credit. Mr. Gates.

Graduate Courses

103. Advanced Organic Chemistry.—Organic preparations and organic analysis. Time to be arranged. Four hours credit. Professor Maw.

110. Research.—Independent work in investigation of problems in inorganic, organic and analytical Chemistry. Time and credit to be arranged. Professor Maw.

CLOTHING AND TEXTILES

Professor Elliott
Miss Mendenhall

Lower Division Courses

11. Elementary Dressmaking.—This course is designed for students not having had high school sewing and those majoring in other departments of the University. Autumn. Four hours a week. Two hours credit. Laboratory fee \$1.00. Miss Hendenhall.

15. Millinery.—This course is especially designed for home makers. Autumn. Two hours a week. One hour credit. Laboratory fee \$1.00. Miss Mendenhall.

16. Millinery.—This course is also designed for home makers. It consists of making braid hats, wire hat frames, transparent hats, etc| Spring. Two hours a week. One hours credit. Laboratory fee \$1.00. Miss Mendenhall.

21. Textiles.—Study of cotton textiles. Use of an adaptation of commercial patterns to the user. Technical finishing of simple, machine-made garments. Lecture period will consider the purchasing of textiles, their construction and care. Plain sewing a prerequisite. Autumn. Daily. Two hours credit. Laboratory fee \$1.00. Professor Elliott.

22. Textiles.—Study of wool and silk textiles. Smock and wool dress, emphasis placed on the correct finishing of each article. Lectures on the above textiles and dress design. Winter. Daily. Two hours credit. Laboratory fee, \$1.00. Professor Elliott.

23. Dressmaking.—Summer dresses. Adapting the line and color to the form and complexion of the wearer. Important points in the social and artistic problems will be emphasized. Spring. Daily. Two hours credit. Laboratory fee, \$1.00. Professor Elliott.

Note: Art 21 should parallel or precede courses 21, 22, 23. For advanced design, applied to dress and household furnishings, see Art 25, 26.

31. Millinery.—Making of bucrum shapes and work in silk and velvet. Remodeling of winter hats. Autumn. Three hours a week. Two hours credit. Laboratory fee, \$1.00. Miss Mendenhall.

32. Millinery.—Braid hats. Making of wire hat frames. Transparent hats. Art. 21 prerequisite. Spring. Three hours a week. Two hours credit. Laboratory fee, \$1.00. Miss Mendenhall.

41. Textiles Decoration.—French and eyelet work. A consideration of decorative needle work applicable to household adornment and wearing apparel. Art 25 and 26, prerequisite. Autumn. M. W. F. Two hours credit. Laboratory fee, \$1.00. Professor Elliott.

45. Fine Sewing.—Hand Sewing. Fine stitching will be applied to baby clothing and children's dresses. Art. 25 and 26 and Clothing and Textiles 41 prerequisite. Winter. M. W. F. Two hours credit. Laboratory fee, \$1.00. Professor Elliott.

46. Fine Sewing.—Sheer waists and summer dresses. The purpose of this course is to create a desire

for dainty clothing. Course 45 prerequisite. Spring, M. W. F. Two hours credit. Laboratory fee, \$1.00. Professor Elliott.

Upper Division Courses

56. Advanced Dressmaking.—Renovation and remodeling. Choosing and altering of patterns. Fitting various types of figures. Practical experience in color, and harmony in designing materials. Autumn. Three hours preparation. Two hours credit. Laboratory fee, \$1.00. Professor Elliott.

57. Advanced Dressmaking.—Afternoon and party dresses. Training in line and color harmony. Adapting designs in current fashion magazines to the individual. Three hours. Three hours required for the preparation. Winter. Two hours credit. Laboratory fee, \$1.00. Professor Elliott.

58. Advanced Dressmaking.—Application of line and color to the proportions of individuals. Design and draping material for summer dresses. Three hours a week. Three hours required for preparation. Spring. Two hours credit. Laboratory fee, \$1.00. Professor Elliott.

65. Textiles.—History of primitive and modern methods of manufacturing textiles. It includes a study of growth, preparation, and manufacture of fibers as a basis of judgment in the purchase and the use of materials used for clothing and house furnishings. Collection and study of samples are required. Prerequisite, Freshman Chemistry. Autumn. T. Th. Two hours credit. Laboratory fee, \$1.00. Professor Elliott.

66. Textiles.—Continuation of course 65. Winter. T. Th. Two hours credit. Laboratory fee, \$1.00. Professor Elliott.

67. Textiles.—Continuation of course 66. Spring.

T. Th. Two hours credit. Laboratory fee, \$1.00. Professor Elliott.

71. **Shop Work.**—This course is designed for students who have had experience in dressmakng and desire to continue in that line of work. Credit is allowed on the basis of one hour of credit for three hours of work. Students may register for one, two or three hours a quarter. Autumn, Winter, or Spring. Time to be arranged. Laboratory fee, \$1.00. Professor Elliott.

DRAFTING

Lower Division Courses

Note: A fee of \$1.00 a year is required of all students in Drafting.

1. **Elementary Drafting.**—Use and care of instruments, drawing of geometric figures, projections, intersections of solids, development of surfaces, etc. Autumn. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

2. **Elementary Drafting.** — Continuation of 1. Winter. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

3. **Elementary Drafting.** — Continuation of 2. Spring. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

4. **Mechanical Drawing.**—Simple parts of machines drawn to scales, blue-printing, etc. Prerequisite, Drafting 1, 2, and 3. Autumn, Daily, 9:30 or 10:30. Two hours credit. Profesoor Partridge.

5. **Mechanical Drawing.**—Continuation of 4. Winter. Daily, 9:30 or 10:30. Two hourse credit. Professor Partridge.

6. **Mechanical Drawing.**—Continuation of 5. Winter. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

7. **Elementary Machine Design.**—Free hand sketching and scaling of simple machines to be drafted. Parts of machines drawn to scale. Detail and assembled drawings of machines with tracings and blue-prints for actual construction. Some attention to original design. Prerequisite Drafting 4, 5, and 6. Autumn. Daily, 9:30 to 10:30. Two hours credit. Professor Partridge.

8. **Elementary Machine Design.**—Continuation of 7. Winter. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

9. **Elementary Machine Design.**—Continuation of 8. Spring. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

10. **Instrumental Perspective.**—Principles of perspective applied to drawing of steps, fences, farms, houses, etc. Prerequisite, Drafting 1, 2, and 3. Spring. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

11. **Instrumental Perspective.**—Continuation of 10. Winter, Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

12. **Instrumental Perspective.**—Continuation of 11. Spring. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

13. **Architectural Drawing.**—Drawing of complete plans and detail work for all parts of a frame dwelling. Working drawings, tracings and blue-prints. Prerequisite, Drafting, 1, 2, and 3. Autumn. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

14. **Architectural Drawing.**—Continuation of 13. Winter. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

15.—**Architectural Drawing.**—Continuation of 14. Spring. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

19. **Topographical Drafting.**—This course is designed to give practical elementary work in topographical drawing. Prerequisite, Drafting 1, 2, and 3. Autumn. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

20. **Engineering Drafting.**—This course is designed to give practical work in elementary drafting needed by prospective civil engineers. Mapping, platting from field notes, etc. Prerequisite, Drafting 1, 2, and 3. Winter. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

Upper Division Courses

51. **Original Architectural Design.**—Designing and drawing of plans, writing specifications, estimating cost of a dwelling, a store, a church, and a school house, with tracings, blue-prints, etc., complete for actual construction. Prerequisite, Drafting 16, 17, and 18. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

52. **Original Architectural Design.**—Continuation of 51. Winter. Daily, 9:00 or 10:30. Two hours credit. Professor Partridge.

53. **Original Architectural Design.**—Continuation of 52. Spring. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

54. **Descriptive Geometry.**—This course includes a study of the principles relating to the point, line, plans,

cylinder, cone, and double-curved surfaces of revolution, with applications to practical problems. Prerequisites, Mathematics 11 and Drafting 7, 8, and 9. Autumn. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

55. Descriptive Geometry.—Continuation of 54. Winter. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

56. Graphics.—Roof and bridge trusses. Direction and amount of forces determined graphically. Prerequisites, Drafting 51, 52, and 53. Spring. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

61. House Planning.—Detail plans for a frame dwelling, a brick dwelling, a store, and a church or school house. Art. 21 recommended as a parallel course. Prerequisite, Drafting 13, 14, and 15. Autumn. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

62. House Planning.—Continuation of 61. Winter. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

63. House Planning.—Continuation of 62. Spring. Daily, 9:30 or 10:30. Two hours credit. Professor Partridge.

ECONOMICS

Professor Swenson
Professor Hoyt

Lower Division Courses

11. Elementary Economics.—This course deals with the general principles underlying the industrial life. It reviews the production and exchange of wealth both from the historical and analytical points of view. Autumn, 8:30. Four hours credit. Professor Swenson.

12. Elementary Economics, Continued. — This course deals with the general principles and methods of the distribution of wealth and some of the resulting problems issuing therefrom as they affect the industrial life. Winter, 8:30. Four hours credit. Professor Swenson.

13. Practical Problems.—This course will consider some of the important and pressing economic problems of the present day industry and an examination and criticism of the economic theory underlying them. Prerequisite. Economics 11 and 12. Spring, 8:30. Four hours credit. Professor Swenson.

28. Railroad Problems.—The development of the American railroad from the standpoints of history, charter, privileges, capital, service, passenger, freight, express and mail; relation to the public, and relation to the state. Winter, 1:30. Four hours credit. Professor Swenson. (Not given this year.)

22. Marketing and Advertising.—See Accounting and Business Administration 22.

23. Marketing of Agricultural Products.—See Accounting and Business Administration 23.

24. Marketing Problems.—See Accounting and Business Administration 24.

Upper Division Courses

56. Corporate Industry.—A study of the history, organization, and economic functions of corporations with emphasis upon their relations to our present social order and the problems they present. Autumn. Four hours credit. Professor Swenson.

57. Labor Problems.—The labor problem in relation to modern history; the rise and growth of labor organizations; the development of collective bargaining;

industrial arbitration and conciliation; the principles of state interference in industry. Spring, 9:30. Four hours credit. Professor Swenson. (Not given this year.)

58. Social Statistics.—The purpose of the course is to become acquainted with the method of gathering and the principles of interpreting various kinds of social and economic data. Spring. Four hours credit. Professor Swenson.

61. Business Organization and Development.—See Accounting and Business Administration 62.

63. Business Administration and Development.—See Accounting and Business Administration 63.

EDUCATIONAL ADMINISTRATION

Professor Woodward

Professor Nuttall

Professor A. N. Merrill

Assistant Professor Ollorton

Lower Division Courses

41. Measurements of Elementary Education.—A study of the movement in education towards measurement and standardization. A critical examination of various standard tests for elementary school subjects, and their value when used in measuring the work of the classroom. Practice will be afforded in giving and scoring tests in the grades of the Training School and interpreting results. Spring. Two hours credit. Assistant Professor Ollorton.

Upper Division Courses

71. Social Organization and Administration of the Secondary School.—After a brief consideration of the social principles upon which the organization of the school

rests, this course will analyze extra class room activities of the school in the light of these social standards with a view to establishing unity in the practices of the secondary school. The following activities will be thus analyzed: Discipline, self-government, control of lunch room activities, assembly exercises, athletic organizations, study clubs (debating, literary, nature study, mathematical, etc.,) scholarship societies, secret societies, good time clubs, the differentiation of social organizations to meet the needs of boys, of girls, school festivals, organizations affiliated with civic societies, the school as a social center. Spring, M. W. F. Three hours credit. Professor Woodward.

73. General Education Administration.—A study of the present organization of state, city, county, and rural school systems will be made. The powers and duties of various school officials together with an outline of the general problems involved in administering a school system, will form the detailed content of the course. Winter. Four hours credit. Professor Nuttall.

Graduate Courses

111. Financial Problems in Educational Administration.—This course will include a special study of financial problems of school administration. It will involve a comparative study of systems of raising and disbursing revenue, of particular problems to be met by the superintendent and boards of education. This course will alternate with 112. Winter. M. Th. Two hours credit. Professor Nuttall.

112. Personnel Problems in School Administration.—This course deals with the selections, planning, improving, and rating of the teaching corps of the school system. Problems of co-operating with school boards, state officials, etc. This course will alternate with 111. Winter. T. F. Two hours credit. Professor Nuttall.

115. Elementary School Supervision.—The course will deal with the general purposes of supervision; the relation of supervisor to teachers and administrative officers; the methods of stimulating, criticising, helping and rating teachers. The course is planned for those preparing to do general primary or grammar grade supervision or to supervise in any special subject such as music or art. Spring. Four hours credit. Professor Nuttall.

117. Administration of Rural Schools.—The first part of this course will be devoted to the problems of rural school administration including a discussion of federal aid as a national program for rural schools; state administration of rural schools; the county unit; consolidation; and the unit and function of local control. Toward the end of the course some of the outstanding problems in the administration of rural high schools will be considered including definition and types, state administration and subsidy, local administration and supervision, special departments, rural adaptations of the curriculum, the junior high school in rural localities, consolidation, and federal aid and the effect of the Smith-Hughes act upon rural secondary education. Autumn. Three hours credit. Professor A. N. Merrill.

121. School Surveys and Measurements.—A consideration of the problems subject to investigation in the organization and administration of the public school systems of the United States, treated from the view point of the needs of high school and elementary school principals, supervisors of schools, and class room teachers. The literature, methods, purposes and results of educational surveys will form the content of the course. Opportunity will also be afforded students to actually participate in original school inquiries. An elementary treatment of educational statistics will be given during the first few meetings of the class in order to enable students to interpret statistical studies in administration. Winter. Three hours credit. Professor Woodward.

123. Criticism and Supervision of Instruction.—Students who have had sufficient teaching experience, will be allowed to undertake a personal investigation in the schools of the vicinity of problems in instruction or supervision. Collateral reading and detailed written reports will be required. Autumn, Winter, or Spring. Three hours credit. Professor Woodward.

125. Thesis Work, Seminary.—In certain courses, students may be given an additional unit of credit on presentation of a satisfactory thesis on an assigned topic, embodying the results of independent work. The consent of the instructor of the course is necessary before registering.

127. Research Problems in School Administration.—The work of this course is largely individual research under the direction of the professor in charge. Most of the material and many of the problems studied will be in connection with the master's thesis. Ability to think independently and to organize is a pre-requisite. From four to eight hours credit, depending upon the problem. Professor Woodward.

EDUCATIONAL SOCIOLOGY

Professor Swenson

Upper Division Courses

72. Community Organization and Leadership.—This course deals with the problems of community life and action and the method of promoting them through organization and leadership. Special attention will be given Church organizations in their relation to the recreational, ethical, and spiritual life of the community. Spring, 2:30. Four hours credit.

74. Rural Sociology.—A course in the study of the

conditions of community life with constructive proposals for economic, educational, recreational, and social betterment. Spring. Three hours credit.

82. Americanization of Foreigners.—This course is intended for those who expect to teach the foreign born or who will be concerned with organizing or supervising the work of Americanization of immigrants. Spring, 1:30. Two hours credit.

84. Educational Sociology.—An introductory study of the principles of educational sociology and their application to the theory and practice of school administration, curricula, and methods of instruction. Winter. Three hours credit.

ELEMENTARY TEACHING

Professor Nuttall

Professor A. N. Merrill

Professor Eastmond

Associate Professor Larsen

Assistant Professor Ollorton

Assistant Professor Dusenberry

Assistant Professor Peterson

Faculty of Elementary Training School

Lower Division Courses

1. Principles of Education.—As an introduction to the study of Philosophy of Education and a basis for a study of teaching this course is required of all students qualifying for elementary teaching. The course deals with such topics as values in education, aims of teaching, educational institutions in their relation to the individual, the place and function of the teacher. Autumn, Winter, or Spring. Three hours credit. Professor Nuttall, Assistant Professor Ollorton, Assistant Professor Peterson.

6. Primary Methods.—This course deals with the fundamental methods used in primary teaching. It must be taken either preceding or paralleling the course in Elementary Training. A careful study of the principles and methods of teaching reading, language and spelling in the first three grades will be made. Special attention will be given to teaching reading. Autumn. Three hours credit. Assistant Professor Peterson.

7. Methods of Teaching in Primary and Intermediate Grades.—Principles, methods, and subject matter involved in the teaching of handwriting, arithmetic, geography, and history will be considered. This will also be supplemented by demonstrations in the Training School. Winter. Three hours credit. Assistant Professor Peterson.

8. Methods of Teaching in Intermediate Grades.—This course should be taken parallel with the course in elementary training by students who expect to teach in the intermediate grades. Careful consideration will be given to the special methods involved in the teaching of the following subjects: Spelling, handwriting, arithmetic, reading and English. Special technique and methods of socializing instruction in each subject will be illustrated by the observation of model lessons in the Training School. Autumn. Three hours credit. Assistant Professor Ollorton.

9. Methods of Teaching in Intermediate Grades.—Principles and methods involved in teaching of history, community civics, manual training, industrial arts, elementary science and geography will receive careful consideration. Attention will also be given to school problems in rural communities, special-day programs, boys' and girls' club exhibits, etc. A valuable part of the course will be the observation work in the Training School. Winter. Three hours credit. Assistant Professor Ollorton.]

10. Methods of Teaching in the Junior High School.

—This course must precede or parallel training in the seventh, eighth or ninth grades. The types of organization of junior high schools will be studied. Emphasis will be placed on the types of class room exercises suited to children of the seventh, eighth and ninth grades. Special methods in English, penmanship, spelling, mathematics will be studied. Autumn. Three hours credit. Professor A. N. Merrill.

11. Methods of Teaching in Junior High Schools.

—A study of the special methods of junior high school science, civics, history and vocational guidance courses will be made. Winter. Three hours credit. Professor A. N. Merrill.

12. Elementary School Curriculum.—This course

is given in response to the general demand for a greater mastery of subject matter by prospective teachers. The information to be taught will be studied and organized so it can be taught. This course will include a study of the state and city courses of study; a study of the sources of information called by these courses; actual finding and recording of special information not readily obtainable in text books; organization of subject matter by grades so it is accessible for teaching. The subjects in the curriculum of the six grades of the elementary school will each receive detailed consideration. Students who have not met the state requirements for a review of the common branches in their high school course will be given an opportunity to pass an examination on this work before being admitted for credit in this course. Autumn. Four hours credit. Assistant Professor Ollorton.

13. Elementary School Curriculum.—Continuation of Education 12. Winter. Four hours credit. Assistant Professor Ollorton.

16. Observation and Elementary Training.—This is essentially a laboratory course affording opportunity for practice teachers to apply the principles of teaching de-

veloped in the theoretical course. Preliminary to actual teaching about three weeks will be devoted to the problem of plan-making. During the course fifty hours will be spent in systematic observation of superior class room teaching and discussion of the activities observed. Students will actually teach not less than one hundred hours, receiving the benefit of constructive criticism of expert supervisors. Autumn, Winter, and Spring. Daily from 1:30 to 2:30 and one other hour between 9:30 and 3:30 to be arranged for. Twelve hours credit. Professor Nuttall and Assistant Professors Ollorton and Peterson.

18. Class Room Management.—This is a course in efficiency in the class room. The conservation of and obtaining the maximum educational value of every element in class room organization. Such topics as the following will receive attention: School programs, seating of pupils, heating and ventilating of school rooms; care and use of supplies and books; school room cleanness; school room decoration; definite disciplinary problems; school records, reports, etc.; value of good management as a condition for good teaching. Spring. Two hours credit. Assistant Professor Peterson.

19. Elementary School Tests.—A study of the movement in education towards measurement and standardization. A critical examination of various standard tests for elementary school subjects, and their value when used in measuring the work of the class room. Practice will be afforded in giving and scoring tests in the grades of the Training School and interpreting results. Spring. Two hours credit. Assistant Professor Ollorton.

20. Use of Books and Libraries.—This course is designed to help prospective teachers to become efficient and resourceful in using books and libraries. How to teach pupils to use the dictionary and methods of stimulating and guiding their home reading will receive special emphasis. One hour's credit. (Not given this year.)

21. Story Telling and Children's Literature.—A study from the literary and educational points of view of the best literature available for children. This should involve some familiarity with the basic folk tales from which the standard children's stories, rhymes and poems have been largely derived, and practical exercises in the oral presentation of this material. Autumn, Winter, or Spring. Two hours credit. Assistant Professor Dusenberry.

22. Health Supervision.—Same as Zoology 67.

23. Normal Art.—Same as Art 41.

24. Normal Art.—Same as Art 42.

25. Normal Art.—Same as Art 43.

26. Normal Reading.—Same as Dramatic Art 63.

27. Methods of Teaching Music.—Same as Theory 10 or 11.

28. Physical Education for Grade Teachers.—Same as Physical Education 21.

29. The Measurement of Intelligence.—This course treats of the methods of identifying children elementary schools who deviate from the normal in general intelligence. The performance of exceptional children will be demonstrated before the class by means of mental tests. Suggestions for proper teaching of these children will be studied. Autumn, Winter, or Spring. Two hours credit. Assistant Professor Dusenberry.

30. Normal Manual Trainig.—Same as Art 44 or Art 46.

Graduate Courses

132. **The Elementary Curriculum.**—The course will include the development of the present curriculum; the organization of the curriculum as it affects subject and grades; the interpretation and use of present courses of study. Time will also be devoted to the ways in which teachers, supervisors and administrative officers may co-operate in making curricula for schools. Autumn. Four hours credit. Professor Nuttall.

134. **Problems in Teaching.**—An advanced course designed to apply the results of modern psychological experimentation on the learning process to class room procedure. Work will consist of reports and class work and the working out of one project in experimental teaching. Hours and credit to be arranged. Professor Nuttall.

ENGLISH

Professor Osmond
Professor Reynolds
Associate Professor Jensen
Mr. H. R. Merrill
Mr. Maeser

Lower Division Courses

1. **Rhetoric and Composition.**—Themes, exercises, and prescribed reading. Autumn, Sec. 1, 8:30; Associate Professor Jensen; Sec. 2, 8:30, Mr. H. R. Merrill; Sec. 3, 9:30, Professor Reynolds; Sec. 4, 9:30, Mr. Maeses; Sec. 5, 10:30, Mr. H. R. Merrill; Sec. 6, 1:30, Professor Osmond; Sec. 7, 2:30, Associate Professor Jensen. Three hours credit.

2. **Rhetoric and Composition.**—Continuation of course 1. Winter, Sections and time as in course 1. Three hours credit.

3. Rhetoric and Composition.—Continuation of course 2. Spring, Sections and time as in course 1 and 2.

4. Advanced Composition.—Long themes, lectures, conferences, and required reading. Prerequisites, English 1, 2, and 3. Required of all students who elect their major in English. Autumn, 10:30. Four hours credit. Professor Osmond.

6. Argumentation and Debate.—A study of the principles of argumentation, followed by a series of debates on current questions. Prerequisites, English 1, 2, and 3. Autumn, 10:30. Four hours credit. Associate Professor Jensen.

8. Newswriting.—A course in news-gathering and writing. The campus and city will be the field of activity. Suitable stories will be published. Prerequisites, English 1, 2, and 3. Winter, 10:30. Four hours credit. Associate Professor Jensen.

10. Short-Story Writing.—The primary purpose of this course is to give the student the maximum amount of practice in creative work. Lectures, conferences, and required reading. Prerequisite, English 4 or permission of the instructor. Autumn, 2:30. Four hours credit. Professor Osmond.

14. Grammar.—This course will deal with fundamental principles of English grammar, placing emphasis on troublesome features. Spring, 10:30. Two hours credit. Associate Professor Jensen.

16. American Literature.—A general survey of American Literature down to 1876. Autumn, —. Two hours credit. Mr. H. R. Merrill.

17. American Literature.—A continuation of course 11 down to 1900. Winter, —. Two hours credit. Mr. H. R. Merrill.

18. **Contemporary American Literature.**—A survey of the present day writers of America. Lectures, conferences, reports, and prescribed reading. Spring. Two hours credit. Mr. H. R. Merrill.

21. **The History and Development of English Literature.**—An outline of English Literature beginning with the Anglo-Saxon period. This course is a prerequisite for all other courses in English Literature. Autumn, 9:30. Two hours credit. Professor Reynolds.

22. **The History and Development of English Literature.**—A continuation of course 21. Winter, 9:30. Two hours credit. Professor Reynolds.

23. **The History and Development of English Literature.**—A continuation of course 22. Spring, 9:30. Two hours credit. Professor Reynolds.

29. **The Romantic Poets.**—Wordsworth and Coleridge.—Autumn, 10:30. Two hours credit. Professor Reynolds.

30. **Byron and Scott.**—Winter, 10:30. Two hours credit. Professor Reynolds.

31. **Byron and Scott.**—Spring, 10:30.. Two hours credit. Professor Reynolds.

35. **Shakespeare's Comedies.**—An intensive study of three or four plays. Required of all students who elect their major in the English department. Autumn, 9:30. Four hours credit. Professor Osmond.

38. **Milton.**—A study of Milton's minor poems and several books of "Paradise Lost." Spring, 1:30. Four hours credit. Professor Osmond. (Not given this year.)

42. **Modern European Drama (Continental).**—Autumn, 4:30. Four hours credit. Professor Reynolds.

43. Modern European Drama (British.)—Winter, 4:30. Four hours credit. Professor Reynolds.

44. Modern Drama (American.)—Spring, 4:30. Four hours credit. Professor Reynolds.

45.—The History and Development of the English Novel.—Autumn, 9:30. Associate Professor Jensen.

46. The Modern Novel.—General reading and a critical analysis of representative novels. Winter, 9:30. Four hours credit. Associate Professor Jensen.

Upper Division Courses

56. Short-Story Writing.—A continuation of course 10. Winter, 2:30. Four hours credit. Professor Osmond.

57. Short-Story Writing.—A continuation of course 56. Spring, 2:30. Four hours credit. Professor Osmond.

58. The One-Act Play.—A study of the technique of the one-act drama. Special emphasis will be given to the writing of plays. Autumn. Four hours credit. Mr. Merrill.

59. Prosody.—A practical course in the various forms of verse-writing. Winter. Two hours credit. Professor Osmond.

60. Prosody.—A continuation of course 59. Spring. Two hours credit. Professor Osmond.

***64. Philology.**—The history and development of words and their ways and the evolution of English grammar. Required of all students who elect their major in English. Spring. Four hours credit. Professor Osmond.

*Arrangements may be made for graduate credit for this course.

***69. Anglo-Saxon.**—The work of this course is based on Bright's Anglo-Saxon Reader. Spring, 3:30. Four hours credit. Professor Osmond.

***71. Chaucer.**—In this course a number of the Canterbury Tales are read in class. The student is carefully drilled in Chaucer's pronunciation, and special attention is given to the interpretation of the text. Required of all students who elect their major in English. Spring, 1:30. Four hours credit. Professor Osmond.

***73. Shakespeare's Tragedies.**—An intensive study of three plays. Required of all students who elect their major in English. Winter, 9:30. Four hours credit. Professor Osmond.

***74. Shakespeare's Tragedies.**—A continuation of course 73. Required of all students who elect their major in English. Spring, 9:30. Four hours credit. Professor Osmond.

***75. Tennyson's Major Poems.**—Winter, M. W. F., 2:30. Three hours credit. Required of students who elect their major in the English department. Professor Reynolds.

***76. Browning.**—Spring, M. W. F., 2:30. Three hours credit. Required of students who elect their major in the English department. Professor Reynolds.

*Arrangements may be made for graduate credit for this course.

FINANCE AND BANKING

Professor Swenson

Assistant Professor Clark

Assistant Professor Robinson

Lower Division Courses

1. Business Finance.—Financial and legal status of the various forms of business organization. A brief study of the agreements, pools, legal trusts, corporations and holding companies. Practical questions such as capital and income; sources and uses of funds; forms of business associations; promotions; consolidations; capitalizations; investment of capital funds; disposition of gross earnings; betterment expenses; creation and distribution of surplus; insolvency and receivership; readjustment and reorganization. Economics 11 and 12, prerequisites. Autumn, 10:30. Four hours credit. Assistant Professor Clark.

2. Business Finance.—Continuation of course 1. Winter, 10:30. Four hours credit. Assistant Professor Clark.

4. Money and Banking.—A study of the principles of money and banking and the exemplifications of these principles in the monetary and banking history of the United States. A study of the present-day currency and banking problems in the United States. Economics 1, 2, 3, prerequisites. Spring, 10:30. Four hours credit. Assistant Professor Clark. (Not given this year).

14. Economic and Financial History of the United States.—The economic development of the United States through the colonial era, and the period of the industrial revolution and westward movement, with emphasis upon economic integration and industrial organization. Autumn, 9:30. Four hours credit. Professor Swenson (Not given this year.)

17. Public Finance.—The science of public finance; the theory of public expenditure; public income and public debts; the preparation of the budget and financial administration. Winter. Four hours credit. Professor Swenson.

21. Contracts.—A study of the creation and performance of contracts; who contract; who are not bound under contract; consideration; illegal contracts; fraud; the law of evidence as applied to written and verbal contracts; the application of the Statute of Frauds; specific performance; damages for breach of contract. Each principle will be illustrated by several cases.

Property.—Kinds of property; how title to personal property is acquired; estate in real property; rights of one person in real property of another; different ways of acquiring title. Bay's Cases will be used. Autumn, 8:30. Four hours credit. Assistant Professor Robinson. (See Political Science 43).

22. Negotiable Paper.—A study of negotiable instruments; forms of bills; notes, drafts and checks; acceptance of drafts and certification of checks; banks' liability on checks; special requirements as to form; defenses to suits on usury, forgery, theft, raising, illegal debts, alterations, infancy, insanity, prior payment; transfer and negotiation; contract of parties; indorsers and when they may be discharged; holders for value and in due course; method and time of presentment in case of dishonor.

Sales.—Sales distinguished from barter, gifts, and bailments. Formalities essential to making a sale. The application of the Statute of Frauds. Warranties; transfer of title; obligations of contracting parties; offer and acceptance; breach and remedies; Uniform Sales Acts. Bay's Cases will be used. Winter, 8:30. Four hours credit. Assistant Professor Robinson. (See Political Science 44).

23. Agency and Partnership.—Agency.—Relationship of principal and agent; responsibilities of each; classes of agents and termination of authority. Partnership; its firm name, capital and property, rights and obligations of each partner; third persons and the partnership; acts which dissolve the partnership.

Corporations.—Corporation defined; its creation; rights and duties of stockholders, directors and officers; rights and limitations of creditors. Bay's Cases will be used. Spring, 8:30. Four hours credit. Assistant Professor Robinson. (See Political Science 47.)

Upper Division Course

50. Investments. A study of the essential elements of an ideal investment. Considerable time will be devoted to a study of local investments, giving the advantage of each form. Finance and Banking 1 and 2 prerequisites. Spring, 10:30. Four hours credit. Assistant Professor Clark.

FOODS AND NUTRITION

Professor Cutler
Miss Warnick

Lower Division Courses

11. Cookery.—A practical course in food preparation, meal planning and serving for house-wives, and for students following lines of study other than Home Economics. Spring. T. Th., 2:30-5:30. Three hours credit. Laboratory fee, \$2.00. Professor Cutler.

21. Food Selection and Preparation.—Prerequisites, Chemistry 11, 12, high school Domestic Science and parallels Botany 21. Autumn. T. Th., 2:30-5:30. Three hours credit. Laboratory fee, \$2.00. Miss Warnick.

22. Food Selection and Preparation.—Prerequisite, course 21. Winter. T. Th., 2:30-5:30. Three hours credit. Laboratory fee, \$2.00. Miss Warnick.

23. Food Economics and Table Service.—Prerequisites, courses 21 and 22. Spring. T. Th., 2:30-5:30. Three hours credit. Laboratory fee, \$2.00. Miss Warnick.

Upper Division Courses

51. Large Quantity Cookery.—Experience in management of school cafeteria, quantity cookery, marketing, keeping of cafeteria accounts. Prerequisites or parallels, courses 21, 22, 23 or equivalent. Daily, 10-12. Autumn, Winter, or Spring. Four hours credit. Miss Warnick.

56. Nutrition.—A study of the chemistry, digestion and metabolism of carbohydrates, fats, proteins, and mineral salts, also the properties of food and their effect on health and growth. Prerequisites, Chemistry 41 and 66. Autumn, M. W. F., 8:30. Three hours credit. Professor Cutler.

57. Dietetics.—This course consists of the study of the food requirements of the family and of the individual. Special emphasis is placed on infant and child feeding. Prerequisite, course 56. Winter. M. W. F., 8:30, and one three-hour laboratory period. Four hours credit. Professor Cutler.

61. Nutrition in Disease.—Prerequisites, courses 56 and 57. (Not given this year.)

71. Investigation Cookery.—Preparation leading to research in foods and nutrition. Prerequisites, courses 56 and 57. (Not given this year.)

GEOLOGY AND GEOGRAPHY

Professor Buss

Assistant Professor Hayes

GEOLOGY**Lower Division Courses**

1. Introductory Geology.—This course introduces the whole field of Geology and should be elected both by those desiring a general knowledge of the subject and those intending to major in the subject. Autumn. M. T. W. F., 9:30, and two Saturday field trips. Four hours credit. Professor Buss.

30. Blowpipe Analysis.—A course in the determination of forty of the more common minerals by means of their physical properties. Winter, Th., 8:30, and three to four hours of laboratory work. Two hours credit. Laboratory fee, \$3.00. Professor Buss.

40. Water Resources.—A study of streams, springs and wells. Spring. Two hours credit. Professor Buss. (Not given this year.)

Upper Division Courses

51. Structural Field Geology.—A course in the recognition and interpretation of rocks, rock structures and deformations on geological maps and in the field. Training in the making of geological maps and sections. Emphasis is laid on the influence of rock structures on the deposition of metal deposits and the accumulation of oil and water. Geology 1, prerequisite. Spring, T., 9:30, and three hours laboratory or field work. Three hours credit. Laboratory fee, \$1.00. Professor Buss.

62. Geology of the United States.—A thorough course in the stratigraphy of the United States by physio-

graphic provinces. The material published by the U. S. Geological Survey and the state surveys will be used. Autumn, M. W. F., 8:30. Three hours credit. Assistant Professor Hayes.

63. Geology of the United States.—Continuation of course 62. Winter, M. W. F., 8:30. Three hours credit. Assistant Professor Hayes.

64. Geology of the United States.—Continuation of course 63. Spring, M. W. F., 8:30. Three hours credit. Assistant Professor Hayes.

70. Historical Geology.—A course in the development of the earth and the forms of life that have inhabited it. Prerequisites, Geology 1, or Geography 1 and 2. Winter, M. T. W. F., 9:30 and some assigned laboratory work. Four hours credit. Professor Buss.

71. Invertebrate Paleontology.—A study of invertebrate life forms and of the parts that may be fossilized, of the conditions under which plant and animal remains have been preserved; and deals with the collection and preparation of fossils and their identification. Autumn, T. Th., 8:30, and three hours laboratory work. Three hours credit. Assistant Professor Hayes.

72. Stratigraphy and Fossils of Mt. Timpanogos.—A course in the rocks and fossils of the mountain; giving the student experience in collecting and determining fossils and their age. Spring, eight hours field or laboratory work. Three hours credit. Assistant Professor Hayes.

80. Lithology.—A study of rock forming minerals and the common rocks by the ordinary field tests and their larger physical characters. Each student will be expected to collect and trim a collection of twenty-five varieties of rocks. Spring, lecture Th., 8:30, and four hours laboratory or field work. Two hours credit. Laboratory fee, \$1.00. Professor Buss.

91. Economic Geology.—Deals with the formation, enrichment or metamorphism of the metallic minerals, coal, gypsum, salt, etc. The statistical literature upon mineral resources will be studied and the methods of mine development will be described. This course will be especially valuable to students in Economics and Finance. Autumn, M. W, F., 9:30. Three hours credit. Assistant Professor Hayes. (Not given this year).

92. Ore Deposits of Utah.—Intended to follow course 91. It deals with the genesis of the ores of Utah and their profitable extraction. Embraces a study of the mining district of the state. Winter, T. Th., 9:30, and trips to the Tintic, Bingham and Park City mining districts, the expense of which the student must meet. Three hours credit. Assistant Professor Hayes. (Not given this year).

Graduate Courses

100. Research.—Under this course special problems in the field of Geology may be assigned to students prepared to do original work. Hours and credit to be arranged with the professor in charge. Professor Buss and Assistant Professor Hayes.

110. Geology of Utah.—Intended for advanced or graduate students who already have a working knowledge of Geology. Deals with the geologic history of the state and its development into distinct provinces. A thorough study of its stratigraphy is made; type localities will be visited to study the formations and structures. Autumn, T. Th., 10:30 and three Saturday field trips, the expense of which to the student may amount to \$4.00 or \$5.00. Three hours credit. Professor Buss.

121. Index Fossils.—A course dealing with the fossils that mark the geologic periods in Utah. Prerequisites, Geology 70 and 71 or their equivalent. Spring, M., 10:30 and six hours laboratory work by arrangement.

Three hours credit. Laboratory fee, \$1.00. Assistant Professor Hayes.

GEOGRAPHY

Lower Division Courses

1. **Advanced Physiography.**—A general course in the agencies at work on the earth's surface and the forms developed by them. Winter, M. W. F., 1:30, and three hours laboratory work. Four hours credit. Laboratory fee, \$1.00. Professor Buss.

2. **Advanced Physiography.** — Continuation of course 1. Spring, M. W. F., 1:30, and several field trips by arrangement. Four hours credit. Professor Buss.

20. **Meteorology.**—The science of weather and the principles of weather forecasting. Autumn, T. Th., 1:30, and one to two hours a week of weather observation. Two hours credit. Professor Buss. (Not given this year.)

30. **Commerical Geography.**—This course deals with the geographic and human factors that have governed the development and localization of industries. Autumn, Daily, 1:30. Five hours credit. Professor Buss.

31. **Principles of Geography.**—Intended primarily for elementary school teachers. Deals with illustrative geographic materials and the principles of Geography, which if understood, lifts Geography above the plane of a mere memory exercise. Winter, M. W. F., 3:30. Three hours credit. Professor Buss. (Not given this year.)

Upper Division Courses

51. **The Distribution of Life.**—A study of the climatic control of plants and animals. Deals especially

with the local distribution as governed by altitude and slope exposure. Spring, T., 2:30, and four hours field work. Two hours credit. Professor Buss. (Not given this year.)

61. Physiography of the United States.—Geography 1 and 2 are prerequisites to this course. Autumn, M. W. F., 8:30. Three hours credit. Professor Buss.

80. Human Geography.—A course in human response to geographic environment. Shows how climate, soil and topography have governed man's occupations, habits of thought, social organization and modes of life. Winter, M. W. F., 10:30. Professor Buss. (Not given this year.)

Graduate Courses

100. Research.—Under this course special problems may be assigned students who are prepared to do original work in the field of Geography. Hours and credit to be arranged. Professor Buss.

111. Physiography of Utah.—Open to advanced students in Geography. Deals with the present surface forms of Utah and how they came to be developed. Spring, T. Th., 8:30, and three Saturday field trips. Three hours credit. Professor Buss.

ASTRONOMY

Upper Division Course

51. Descriptive Astronomy.—A course that deals with the fundamental laws that govern the heavenly bodies. It is especially intended to introduce students to the larger concepts of Nature. Of great value in the philosophy of Geology. Autumn, Daily, 8:30, and one evening each week at the observatory. Five hours credit. Professor Buss.

HISTORY

Professor Jensen

Mr. Snow

Mr. Romney

Lower Division Courses

1. **Early Medieval Period.**—A study of the later Roman Empire; Roman imperialism; reforms of Diocletian and Constantine; growth of Christianity; rise of the Papacy; barbarian invasions; break-up of the Roman Empire; Charlemagne and the Franks; feudalism and its results; conflict between the Papacy and the Emperors; rise and growth of Mohammedanism; the Crusades; rise of the universities; medieval institutions. This course is open to all students. It should be elected in the Freshman year by all who intend to major in History, to be followed in the Winter quarter by History 2, and in the Spring quarter by History 3. Autumn, 10:30. Four hours credit. Mr. Romney.

2. **Later Medieval and Early Modern History.**—A study of the medieval Church; rise of national monarchies; medieval towns; trade and craft guilds; the Renaissance movement; the Protestant Reformation and the religious wars; the Counter-Reformation; English constitutional development under the Stuarts; the period of Louis the Fourteenth. Open to all students. Winter, 10:30. Four hours credit. Mr. Romney.

3. **Later European History.**—A study of the old regime; the forces of revolution in Europe; the political and social movements during the 19th and 20th centuries; recent developments and problems. Open to all students. Spring, 10:30. Four hours credit. Mr. Romney.

10.—**History of English to 1485.**—The origins of English institutions; the beginnings of nationality; the Norman conquest and its results; feudalism in England;

influence of Henry II and Edward I; parliamentary development of the 13th century; the beginning and development of popular rights; the rise of industrial and commercial classes; the Hundred Years War; the Wars of the Roses. Autumn, 3:30. Three hours credit. Mr. Romney.

11. History of England, 1485-1789.—England under the Tudors; constitutional reaction; the struggle of the Stuarts with the forces of Puritanism; the Commonwealth and the Protectorate; influence of Cromwell; the Restoration and the threat of the later Stuarts; the Revolution of 1688. Winter, 3:30. Three hours credit. Mr. Romney.

12. History of England, 1789 to 1920.—The development of cabinet government; the wars with France; the Napoleonic struggles; the conditions leading up to the American Revolution and the loss of the American colonies; the expansion of the British Empire; the political, social, religious, and economic reforms of the nineteenth century; the Irish question; Great Britain in the World War; present problems. Spring, 3:30. Three hours credit. Mr. Romney.

20. American History to 1789.—A study of the problems of discovery, exploration, and colonization; European conflicts for colonial possessions in America; causes, conflicts, and results of the American Revolution; establishment of State governments; the "Critical Period" and its problems; the work of the Federal Constitutional Convention; ratification of the Constitution. Open to all students. Autumn, 1:30. Three hours credit. Professor Jensen.

21. American History 1789 to 1861.—The establishment of a national government; political theories of Federalists and Anti-Federalists; Jeffersonian democracy; the Second War with England; the "Rise of the New West;" formulation of the Monroe Doctrine; the

Jacksonian "reign;" nullification; the Mexican War; economic, political, and moral phases of slavery. Winter, 1:30. Three hours credit. Professor Jensen.

22. American History Since 1861.—The problem of secession; the military, political, and economic aspects of the Civil War; problems of reconstruction; civil service reform; the Far West; Spanish-American War; the Philippine question; industrial and social problems; diplomacy and foreign relations; political parties and party activities; participation in the World War. Spring, 1:30. Three hours credit. Professor Jensen.

40. Contemporary History.—Three hours credit. (Not given this year.)

Upper Division Courses

50. History of France to French Revolution.—Three hours credit. (Not given this year.)

51. History of France Since French Revolution.—Three hours credit. (Not given this year.)

62. The French Revolution and the Napoleonic Period.—Four hours credit. (Not given this year.)

63. History of Europe Since 1815.—Four hours credit. (Not given this year.)

***90. Constitutional History of England to 1485.**—A study of the origin and development of the English constitution; the royal prerogative and its theory; Magna Charta; development of the Norman-Angevin administrative system; growth of the common law; evolution of the judicial system and the jury; the origin of Parliament, its form, growth, and powers; its development under the

*Students may register in this course for graduate credit.

later Angevins and Lancastrians; tenure and military service. Autumn, 2:30. Two hours credit. Professor Jensen.

***91. Constitutional History of England, 1485 to 1688.**

—Reconstruction of the government under the Tudors; position of the Council and Parliament; the national church and its control; development of powers of the justice of the peace; conflict between the "Divine Right," monarchy and parliament; the Petition of Right; impeachment and bills of attainder; constitutional changes under the Commonwealth and the Protectorate; the Restoration; the habeas corpus act; the dispensing power; struggle for constitutional rights under the later Stuarts; the Revolution of 1688. Winter, 2:30. Two hours credit. Professor Jensen.

***92. Constitutional History of England, 1639 to 1920.**

—The Bill of Rights; supremacy of the law; Act of Settlement; Act of Union with Scotland; establishment and evolution of the cabinet; position of the prime minister; reactionary tendencies of George III; Act of Union with Ireland; Catholic emancipation act; growth of parliamentary government; reform acts of 1832, 1867, 1884, 1885, 1918; Parliament Act of 1911; local government; constitutional relations with Ireland; constitutional relations with the colonies. Spring, 2:30. Two hours credit. Professor Jensen.

(Courses 90, 91, 92 furnish a good foundation for future legal study).

***95. American Constitutional History to 1789.**

—A study of colonial institutions and the constitutional relations between the colonies and the mother country; the problem of British imperialism; constitutional theories and principles involved in the pre-Revolutionary struggles; the constitutional questions of the American Revo-

*Students may register in this course for graduate credit.

lution; establishment of the State constitutions; problems of the Confederation; Federal constitutional convention; organization of the new government. Open to all with proper qualifications. Especially recommended for those who plan to study law. Autumn, 9:30. Two hours credit. Professor Jensen.

***96. American Constitutional History from 1789 to 1861.**—A study of the constitutional questions involved in the Alien and the Sedition Acts; the Virginia and Kentucky Resolutions; the Hartford Convention; influence of Chief Justice Marshall; acquisition of new territory; constitutional problems connected with internal improvements; constitutional problems of slavery and expansion; Garrison's views of government; constitutional theories of Calhoun, Hayne, and Webster. Winter, 9:30. Two hours credit. Professor Jensen.

***97. American Constitutional History from 1861 to 1920.**—A study of constitutional questions connected with the Civil War; secession and coercion; constitutional problems relating to declaration of war and blockade; the war powers and civil rights; martial law and the constitution!; emancipation; governmental problems of reconstruction; the amendments to the constitution; constitutional problems relating to industrial and economic expansion; insular possessions and the constitution; questions of the World War. Recommended for students intending to study law. Spring, 9:30.. Two hours credit. Professor Jensen.

Graduate Course

101. Research.—Open to properly qualified graduate students. Registration only after consultation. Hours and credit to be arranged. Professor Jensen.

*Students may register in this course for graduate credit.

HORTICULTURE

Professor M. C. Merrill

The following courses are required of all students majoring in Horticulture: 1, 2, 3, 4, 5, 8, 51, 53, 54, 55, 57.

Some of the courses are offered each year, but most of them are offered on alternate years.

Lower Division Courses

1. Principles of Orcharding.—The principles underlying the practices of orchard management. History of orcharding in the United States and particularly in the West, selection of location, site, and soil for different types of tree fruits, nursery stock, methods of planting, tillage methods, proper care of the plant, study of thinning, picking, harvesting, and marketing of the fruit. Autumn, M. W. F., 8:30. Alternates with Horticulture 3. Three hours credit. Professor Merrill.

2. Practical Orchard Operations.—The practical work of pruning, spraying, renovating, budding, and grafting orchard trees. Spring, laboratory T. Th., 2:30 to 4:30. Two hours credit. Laboratory fee, \$1.00. Alternates with Horticulture 4. Professor Merrill.

3. Home and Commerical Gardening.—The principles underlying vegetable production in both home and commercial gardens. Outline given of history and statistics of garden crops in the United States. Special emphasis placed upon those vegetable crops adapted to production on a commercial scale in Utah for local and distant markets and for canning. Autumn, M. W. F., 8:30. Three hours credit. Alternates with Horticulture 1. Professor Merrill. (Not given this year).

4. Practical Garden Operations.—Making of garden plans, study of vegetable varieties. Construction and

planting of hotbeds, management of the same, transplanting to cold frames, planting and transplanting vegetables in garden, insect control, and general management of the garden. Spring, laboratory T. Th., 2:30-4:30. Two hours credit. Laboratory fee, \$1.00. Professor Merrill. Alternates with Horticulture 2. (Not given this year.)

5. Insects Affecting Fruit and Vegetable Crops.—Collections will be made and studied of the most common insects affecting fruit and vegetable crops in Utah. Special emphasis placed upon life-histories of the insects and methods of control. Each student will be required to collect and mount many of the more common insects. Autumn, T. Th., 9:30, laboratory W., 2:30-4:30. Three hours credit. Professor Merrill.

6. Methods of Plant Propagation.—A study of the principles and methods involved in propagating plants both by seeds and vegetative parts. Winter, T. Th., 10:30, laboratory W. 2:30-4:30. Three hours credit. Laboratory fee, \$1.00. Alternates with Horticulture 51. Professor Merrill.

7. Plant Materials for Home Beautification.—A study of the characteristics and culture of house plants, flowers, shrubs, trees, and lawn grasses that may be grown in or about the home in order to beautify it. Special emphasis given those plants adapted to Utah conditions. Designed for students in Home Economics as well as Horticulture. Spring, T. Th., 9:30, laboratory M., 2:30-4:30. Three hours credit. Alternates with Horticulture 52. Professor Merrill.

8. Small Fruits.—A study of the history of small fruit growing in the United States. The crops studied include raspberries, blackberries, dewberries, currants, gooseberries, strawberries and grapes. Varieties, soils, cultural methods, pruning, training, insect and disease control, and harvesting. Special emphasis placed upon

Utah conditions. Spring, T. Th., 10:30. Laboratory W., 2:30-4:30. Three hours credit. Professor Merrill.

Upper Division Courses

51. Fundamentals of Plant Reproduction.—A technical course dealing with the fundamental principles of heredity in sexual and asexual reproduction. The formation and anatomy of the seed, the physiology of vegetative propagation, the morphology and physiology of budding, grafting, and graft hybrids. Winter, M. W. F., 10:30. Three hours credit. Alternates with Horticulture 6. Professor Merrill. (Not given this year).

52. Principles of Landscape Design.—History and characteristics of landscape design in countries of Asia, Europe, and America. Fundamentals of art in landscape gardening. The principles underlying the arrangement of buildings, walks, drives, and planting of flowers, shrubs, and trees about home and public grounds. City planning, village improvement, streets, parks, cemeteries. Spring, T. Th., 9:30. Laboratory M. 2:30-4:30. Three hours credit. Alternates with Horticulture 7. Professor Merrill. (Not given this year).

53. Origin and History of Cultivated Plants.—The historic beginnings of plant cultivation. Changes and adaptation of plants. Origin and nomenclature of varieties. Ecological development and successions of vegetation. Winter, T. Th., 9:30. Two hours credit. Professor Merrill.

54. Systematic Pomology.—A study of the characteristics of wild and cultivated species of both tree and small fruits. Place of origin and history of each species, origin and development of varieties from each species, characteristics, description, nomenclature, and identification of fruit varieties. Autumn, T. Th., 10:30, laboratory M., 2:30-4:30. Three hours credit. Professor Merrill.

55. Fundamentals of Fruit Production.—A techni-

cal course based upon the principles of plant physiology as applied to fruit production. Water relations, nutrition, temperature, the physiology of pruning, fruit-setting, edaphic and climatic factors will be the main subjects considered. The new textbook by Gardner, Bradford and Hooker will constitute the basis of the course. Winter, M. W. F., 9:30. Three hours credit. Professor Merrill.

56. Principles of Horticulture.—A course intended primarily for seniors in agriculture who are not majoring in horticulture but who desire general information about the various phases of horticulture. Spring, M. W. F., 9:30, laboratory, T. Th., 2:30-4:30. Five hours credit. Laboratory fee, \$1.00. Professor Merrill.

57. Seminar.—For senior students in horticulture. One hour credit. Time to be arranged. Professor Merrill.

Graduate Courses

101. Chemistry of Horticultural Products.—A study of the biological and physical chemistry of horticultural products. Analysis and composition of fruits and vegetables in relation to environmental factors. Good opportunities are afforded students in this course to get started on interesting research problems. Winter, T. Th., 10:30, laboratory W., 2:30-4:30. Three hours credit. Laboratory fee, \$1.00. Professor Merrill.

102.—Breeding of Horticultural Plants.—This course deals with the practical problems of mendelism, genetics, and biometry as applied to horticultural crops. Spring, T. Th., 10:30, laboratory W., 2:30-4:30. Three hours credit. Professor Merrill.

103. Research.—For advanced students in horticulture who are qualified for the work. Time and credit to be arranged. Professor Merrill.

HOUSEHOLD ADMINISTRATION

Professor Cutler

Upper Division Courses

51. Teachers Course.—Home care of the sick. Prerequisite Biology 21. Autumn, T. Th., 9:30. Two hours credit. Professor Cutler.

55. Teachers Course.—A course in child care. Winter, M. W. F., 9:30. Three hours credit. Professor Cutler.

Note: Household Administration 51 and 55 are designed for teachers of home nursing and child care, yet will be of value to mothers and social workers. For students majoring in Home Economics, Biology 55 should precede or parallel Household Administration 55.

61. Home Management.—The study of the organization and management of the home, including home ideals, methods of work, division of time in the household, household tools. Prerequisite, Sociology 11 for students majoring in Home Economics. Autumn, M. W. F., 9:30. Three hours credit. Professor Cutler.

65. Home Management.—Supervised work in a practice house. Time and credit to be arranged.

71. Household Economics.—The division of the income. Efficient household purchasing. Methods and practice of keeping personal and household accounts. Winter, T. Th. Two hours credit. Professor Cutler.

66. Methods.—Methods of teaching Home Economics. Aims, organization of subject matter, lesson plans, course of study, equipment. Prerequisite Education 66, for seniors majoring in Home Economics. Winter, T. Th., 8:30. Two hour credit. Professor Cutler.

67. **Practice Teaching in Home Economics.**—(See Education 37.)

68. **Home Planning and Applied Art.**—(See Art. 28.)

69. **Home Planning and Applied Art.**—(See Art. 29.)

MATHEMATICS

Professor Eyring

Assistant Professor Hayes

Mr. Olpin

Lower Division Courses

11. **Plane and Spherical Trigonometry.**—The study of the trigonometric functions of angles, and the solution of triangles, trigonometric equations, and the theory and use of logarithms. The course is fully illustrated by practical problems. Winter, 9:30. Five hours credit.

12. **College Algebra.**—A brief review of high school Algebra; the theory of the fundamental operations and the solution of conditional equations; method of undetermined co-efficients; partial fractions, permutations and combinations; highest common factor; determinants; graphs of equations of the first and second degree in two variables; and an introduction to Analytic Geometry. Autumn, 9:30. Freshman year. Five hours credit.

13. **Analytic Geometry.**—A study of rectangular co-ordinates, straight line, circle, parabola, ellipse, hyperbola, transfer of co-ordinates, general equation of the second degree in x and y , systems of conics, polar co-ordinates, and co-ordinates in space. Freshman year. Spring, 9:30. Five hours credit.

31. **Differential and Integral Calculus.**—The study

of functions and their graphical representation; differentiation, rate of change of a function; integration as the limit of the sum; definite integrals; expansion in series; indeterminate forms; partial differentiation; and multiple integration, with geometrical applications to areas and volumes and with mechanical applications to attraction, moment of inertia. Autumn, M. T. Th. F., 8:30. Four hours credit.

32. Differential and Integral Calculus.—Continuation of 31. Winter, M. T. Th. F., at 8:30. Four hours credit.

33. Differential and Integral Calculus.—Continuation of 32. Spring, M. T. Th. F., at 8:30. Four hours credit.

Upper Division Courses

61. Definite Integrals.—The study of the properties and methods of computing definite integrals with applications of Physics and Geometry. Byerly's Integral Calculus will be used as a text. Junior or Senior year. Autumn, 8:30. Four hours credit. (Not given this year.)

71—Differential Equations.—The study of differential equations of the first order, linear differential equations, total and partial differential equations, with numerous applications of Physics. Junior or senior year. Autumn, 8:30. Three hours credit.

72. Differential Equations.—Continuation of 71. Winter, 8:30. Three hours credit. (Not given this year.)

86. Analytical Mechanics.—The general principles of mechanics; the statics and dynamics of particles, rigid bodies, and fluids. Spring, 8:30. Four hours credit. M. T. Th. F. (Not given this year.)

Students who major in Mathematics have the following courses prescribed: Mathematics 11, 12, 31, 32, 33, 71, 72.

MECHANIC ARTS

Assistant Professor Snell
Mr. Bigelow

AUTO MECHANICS**Lower Division Courses**

11. **Elementary.**—Construction of the automobile and an elementary study of the principles involved. Assembling, repairing, lubrication, battery, ignition, and carburetor work. Drafting 23 and Ironwork 11, recommended as parallel courses. Lectures and demonstration twice each week. Autumn. Daily, 3:30-5:30. Laboratory fee, \$5.00. Three hours credit. Mr. Bigelow.

12. **Elementary.**—Continuation of 11. Winter. Daily, 3:30-5:30. Laboratory fee, \$5.00. Three hours credit. Mr. Bigelow.

13. **Elementary.**—Continuation of 12. Spring. Daily, 3:30-5:30. Laboratory fee, \$5.00. Three hours credit. Mr. Bigelow.

IRONWORK**Lower Division Courses**

11. **Elementary.**—This course is designed to give training in the fundamental principles of forge practice. Autumn. Daily. Time to be arranged. Laboratory fee, \$4.00. Five two-hour recitations. Three hours credit.

12. **Elementary.**—Continuation of 11. Winter. Daily. Time to be arranged. Five two-hour recitations. Three hours credit. Laboratory fee, \$4.00.

13. **Elementary.**—Continuation of 12. Spring. Daily. Time to be arranged. Five two-hour recitations. Laboratory fee, \$4.00. Three hours credit.

WOODWORK**Lower Division Courses**

1. Elementary Construction.—This course is designed (1) for the student who wishes training in the fundamental principles preparatory to pursuing this line of work; or (2) for the student who has had this training but wishes only a general course that will enable him to construct the simpler buildings, etc., in and around the farm and home, such as gates, fences, and farm buildings. Attention is given to individual needs. Students should have had or should be taking drafting as a parallel course. Autumn. Daily, 1:30-3:30. Laboratory fee, \$2.50. Three hours credit. Assistant Professor Snell.

12. Elementary Construction.—Winter. Continuation of 11. Daily, 1:30-3:30. Laboratory fee, \$2.50. Three hours credit. Assistant Professor Snell.

13. Elementary Construction.—Spring. Continuation of 12. Daily, 1:30-3:30. Laboratory fee, \$2.50. Three hours credit. Assistant Professor Snell.

21. Cabinet Construction.—This course is designed to teach the principles of cabinet construction. After the problem is chosen, drawings and blue-prints are submitted and the article is made to conform to these. Training is given in the use of modern woodworking machinery. Woods commonly used in cabinet work are studied as to their adaptability and finishing qualities; veneering, inlaying and hand polishing. Prerequisite, Drafting 13. Autumn. Daily, 1:30-3:30. Laboratory fee, \$2.50. Three hours credit. Assistant Professor Snell.

22. Cabinet Construction.—Continuation of 21. Winter. Daily, 1:30-3:30. Laboratory fee, \$2.50. Three hours credit. Assistant Professor Snell.

23. Cabinet Construction.—Continuation of 22.

Spring. Daily, 1:30-3:30. Laboratory fee, \$2.50. Three hours credit. Assistant Professor Snell.

Upper Division Courses

51. **Carpentry.**—This course deals with problems of inside finish; i. e., laying of floors, fitting of windows, hanging of doors, casing, and built-in work. Stair construction and dado work. Thorough drill in saw filing. Prerequisite, Drafting, 73. Autumn. Daily 3:30-5:30. Laboratory fee, \$2.50. Three hours credit. Assistant Professor Snell.

52. **Carpentry.**—Location of buildings with respect to soil conditions, street frontage, etc. Foundations, footings, and damp proofing. Application of the steel square to framing problems. Full, half and balloon framing. Prerequisite, Drafting, 73. Winter. Daily 3:30-5:30. Laboratory fee, \$2.50. Three hours credit. Assistant Professor Snell.

53. **Estimating.**—Interpretation of plans and specifications. Methods of estimating and figuring costs of material and labor for excavations, foundations, cement work, heating, plumbing, painting, etc. Permits, contracts, liens. Prerequisites, Drafting 73. Spring. M. W. F. 3:30-4:30. Laboratory fee, \$2.50. Three hours credit. Assistant Professor Snell.

61. **Shop Work.**—Under the supervision of the instructor, students may do advanced work, consisting of the erection of buildings, built-in work, fancy furniture, or novelty work. Complete plans and specifications must be submitted and accepted before work is begun. Prerequisite, Woodwork 51, 52, 53 or their equivalent. Time to be arranged. Credit given on the basis of three hours for ten hours of application each week during the quarter. Autumn. Laboratory fee, \$2.50. Assistant Professor Snell.

62. Shop Work.—Continuation of 61. Time, fee, credit, etc., as in 61. Winter. Assistant Professor Snell.

63. Shop Work.—Continuation of 62. Time, fee, credit, etc., as in 62. Spring. Assistant Professor Snell.

MODERN LANGUAGES AND LATIN

Professor Cummings

Miss Wunderly

Mr. —————

FRENCH

Lower Division Courses

1. Elementary French.—This is the first of six consecutive courses of four hours each, designed to meet the requirements for the Bachelor of Arts Degree. It is advised that this requirement be met in the Freshman and Sophomore years. The student begins with drills intended to train his ear for French sounds. The fundamentals of grammar are begun. Special effort is made to secure to the student a correct pronunciation from the beginning. To aid in attaining the purposes of this and sequence courses, the student has use of numerous laboratory facilities, including phonograph, sound charts, vocabulary charts, maps, etc. A certain amount of outside work is done under supervision, hours for which may be arranged for. Sec. 1, Autumn, 9:30; Sec. 2, Winter, 8:30. Four hours credit. Professor Cummings and Miss Wunderly.

2. Elementary French.—Further drill in phonetics and pronunciation. Continued grammar drill. Students acquire a definite minimum of vocabulary. Prerequisite French 1. Sec. 1, Winter, 9:30; Sec. 2, Spring, 8:30. Four hours credit. Professor Cummings and Miss Wunderly.

3. Elementary French.—Continuation of French 2. Constant attention to correct pronunciation and grammar drill. Some laboratory work. A higher minimum fund of vocabulary. Some easy reading. Prerequisite, French 2, or one unit. Sec. 1, Spring, 9:30. Four hours credit. Miss Wunderly.

4. Advanced French.—Continuation of French 3. Drill, grammar, dictation, synonyms, antonyms, conversation, reproduction exercises. Abundant easy reading with special attention to acquiring vocabulary. Some laboratory work. Prerequisite French 3, or equivalent. Autumn, 1:30. Four hours credit. Miss Wunderly.

5. Advanced French.—Continuation of French 4, involving the same kind of work. Some outside reading is expected, for which students in science may substitute French reading in their respective lines. Prerequisite, French 4, or two units. Winter, 1:30. Four hours credit. Miss Wunderly.

6. Advanced French.—Continuation of French 5, with similar drills. Students desiring to read scientific French may do so in lieu of other outside reading., Prerequisite, French 5, or equivalent. Spring, 1:30. Four hours credit. Miss Wunderly.

Upper Division Courses

51. Conversational French.—Oral exercises based upon texts illustrating French life, manners and ideas. Given any quarter on request of a sufficient number of students. Prerequisite, 24 hours of French, or equivalent. Four hours credit. Professor Cummings.

52. Conversational French.—Course 51 continued. Four hours credit.

53. Conversational French.—Course 52 continued. Four hours credit.

54. French Composition.—General principles and practical exercises of French composition. Regular short themes in French. Given any quarter on request of a sufficient number of students. Prerequisite, 24 hours French or equivalent. Four hours credit.

55. French Composition.—Course 54 continued. Four hours credit.

56. French Composition.—Course 55 continued. Four hours credit.

57. Directed French Reading.—The reading will be taken from the general field, but the work of the student is unified around some center of interest. The bulk of the reading will be outside of the class and selected largely with the individual student's interests in mind. Given any quarter on request of a sufficient number of students. Prerequisite, 24 hours of French. Four hours credit.

58. Directed French Reading.—Course 58 continued. Four hours credit.

59. Directed French Reading.—Course 58 continued. Four hours credit.

61. Scientific French.—The entire attention of the student is engaged in reading for facility in getting the thought from the printed page of scientific matter. Particular attention is given to the needs of the individual student. Much valuable information is within the reach of the student in biology, physics, chemistry, etc., if he has a reading knowledge such as this course is designed to give. Given on request of a sufficient number of students. Prerequisite French 6, or equivalent. Four hours credit. Professor Cummings.

62. Scientific French.—Course 61 continued. Four hours credit.

63. **Scientific French.**—Course 62 continued. Four hours credit.

71. **Romantic Novel.**—Prerequisite, 24 hours of French. Two hours credit. (Not given this year.)

72. **Realistic Novel.**—Prerequisite, 24 hours of French. Two hours credit. (Not given this year.)

73. **Contemporary Novel.**—Prerequisite, 24 hours of French. Two hours credit. (Not given this year.)

81. **Nineteenth Century Drama.**—Prerequisite, 24 hours of French. Two hours credit. (Not given this year.)

82. **Nineteenth Century Drama.**—Course 71 continued. Two hours credit.

83. **Nineteenth Century Drama.**—Course 72 continued. Two hours credit.

91. **Moliere and the French Comedy.**—Prerequisite, 24 hours of French. Four hours credit. (Not given this year.)

SPANISH

Lower Division Courses

1. **Elementary Spanish.**—This is the first of six consecutive courses of four hours each designed to meet the requirement for the Bachelor of Arts Degree. It is advised that this requirement be met in the Freshman and Sophomore years. Special emphasis is laid on pronunciation. Drills train the ear for Spanish sounds. Laboratory facilities are provided to aid the student in securing the objectives of this sequence of courses. These aids are the phonograph, sound charts, vocabulary charts, maps, etc. A certain amount of regular laboratory work under supervision will be required, hours for which are to

be arranged. Autumn, 1:30. Four hours credit. Professor Cummings.

2. Elementary Spanish.—Work of course 1 continued. Easy reading. Students acquire definite minimum of vocabulary. Grammar drill. Prerequisite, Spanish 1. Winter, 1:30. Four hours credit. Professor Cummings.

3. Elementary Spanish.—Conversation, grammar, and vocabulary. Easy reading. Prerequisite, Spanish 2, or one unit. Spring, 1:30. Four hours credit. Professor Cummings.

4. Advanced Spanish.—Review and continuation of grammar. Considerable reading. Higher minimum of vocabulary. Conversation and written composition. Prerequisite, Spanish 3, or equivalent. Autumn, 2:30. Four hours credit. Professor Cummings.

5. Advanced Spanish.—Continuation of Spanish 4. Outside reading with special attention to vocabulary. Prerequisite, Spanish 4, or two units. Winter, 2:30. Four hours credit. Professor Cummings.

6. Advanced Spanish.—Continuation of Spanish 5. Considerable ability is attained in reading ordinary Spanish. Prerequisite, Spanish 5, or equivalent. Spring, 2:30. Four hours credit. Professor Cummings.

Upper Division Courses

54.—Commerical Spanish.—Conversational, industrial and commercial phases of Spanish. Prerequisite, Spanish 6, or equivalent. Given on request of a sufficient number of students in any quarter. Four hours credit.

55. Commerical Spanish.—Course 31 continued. Four hours credit.

57. Directed Spanish Reading.—The reading is

taken from the general field, but the work of the student is unified around some center of interest. Much will be read out of class. Given any quarter on request of a sufficient number of students. Prerequisite, 24 hours of Spanish. Four hours credit. Professor Cummings.

58. **Directed Spanish Reading.**—Course 57 continued. Four hours credit.

59. **Directed Spanish Reading.**—Course 58 continued. Four hours credit.

GERMAN

Lower Division Courses

1. **Elementary German.**—This is the first of six consecutive courses of four hours each, designed to meet the requirements for the Bachelor of Arts Degree. It is advised that the language requirement be met in the Freshman and Sophomore years. The student begins with the fundamentals of the pronunciation and grammar, and begins to acquire a substantial fund of vocabulary. To aid him in attaining the objectives of this and sequence courses he will be required to do a certain amount of study with the use of laboratory apparatus, including the phonograph, sound charts, vocabulary charts, maps, etc. Autumn. Four hours credit. Miss Wunderly.

2. **Elementary German.**—Further drill in phonetics and grammar. Students acquire a definite minimum of vocabulary. Prerequisite German 1. Winter. Four hours credit. Miss Wunderly.

3. **Elementary German.**—Continuation of German 2. Constant attention to pronunciation and grammar drill. Easy reading and higher minimum of vocabulary. Prerequisite, German 2, or one unit. Spring. Four hours credit. Miss Wunderly.

4. **Advanced German.**—Continuation of German 3. Drill, grammar, dictation, conversation, reproduction exercises. Abundant easy reading with special attention to habituation of large practical vocabulary. Prerequisite, German 2, or one unit. Spring. Four hours credit. Miss Wunderly.

5. **Advanced German.**—Continuation of German 4, with much the same kind of work, but more advanced. Some outside reading is expected, including scientific reading if desired by individual students who are aiming to acquire a reading knowledge of scientific German. Prerequisite, German 4, or two units. Winter, 9:30. Miss Wunderly.

6. **Advanced German.**—Continuation of German 5, with similar work, outside reading may include scientific reading if desired by the individual student. Prerequisite, German 5, or equivalent. Spring, 9:30. Four hours credit. Miss Wunderly.

Upper Division Courses

57. **Directed German Reading.**—The reading is taken from the general field, but with an idea of unifying the work of the student around some center of interest. The most of the reading is outside the class and is selected according to the individual needs. Prerequisite, German 6, or equivalent. Four hours credit. (Not given this year.)

58. **Directed German Reading.**—Course 57 continued. Four hours credit.

59. **Directed German Reading.**—Course 58 continued. Four hours credit.

61. **Scientific German.**—The entire attention of the student is engaged in reading with a view to facility in getting the thought from the German printed page.

Special attention to individual needs. Ability to read German scientific works is indispensable for the best work of the research student in chemistry, physics, biology, and other sciences. Prerequisite, German 6, or equivalent. Given on request of a sufficient number of students. Four hours credit. Professor Cummings.

62. Scientific German.—Course 61 continued. Four hours credit.

63. Scientific German.—Course 62 continued. Four hours credit.

LATIN

Lower Division Courses

1. Elementary Latin.—Mastery of declensions and conjugations. Correlation of Latin originals and English derivatives. Autumn. Four hours credit.

2. Elementary Latin.—Latin 1 continued. Winter. Four hours credit.

3. Elementary Latin.—Latin 2 continued. Spring. Four hours credit.

4. Cicero.—Minimum of three of Cicero's orations. Prerequisite, Latin 3, or equivalent. Autumn. Four hours credit. (Not given this year.)

5. Vergil.—Reading and literary interpretation of Vergil's Aeneid. Attention is given to mythology. Prerequisite, Latin 4, or equivalent. Winter. Four hours credit. (Not given this year.)

6. Vergil.—Latin 5 continued. Prerequisite, Latin 5, or equivalent. Spring. Four hours credit. (Not given this year.)

PHONETICS**Upper Division Course**

51. Phonetics.—The course is designed to correlate with courses in the spoken arts and vocal music, by aiding the student to lay the foundation for correct diction. It is also intended to be helpful to prospective teachers of English, French, Spanish and German. Attention will be given to the essential facts and principles of physiology, psychology and physics involved in producing and hearing vocal sounds. English is made the basis of illustration, but reference is also made to analogous phenomena in other modern languages to make clear matters of speech mechanism, movement, syllabication, articulation, enunciation, etc. A knowledge of these should underlie dialect study, for without it such study is unguided imitation. Drills will be given in the pronunciation of the names of composers, writers, etc., of foreign countries. Autumn, 10:30. Four hours credit. Professor Cummings.

MUSIC

The work of this department is grouped into three divisions, viz.: **Vocal, Theory, and Instrumental.** Private courses are indicated by a hyphen and a letter p (-p) following the number of the course, e. g., 12-p means course 12 private instruction. In the instrumental division, the letter immediately following the number indicates the instrument, e. g., 7p-p means course 7 private piano, 7t-p means course 7 private trombone.

VOCAL MUSIC

Professor Jepperson

Mr. Madsen

Private Vocal Culture.—These courses provide systematic instruction in vocal study as evolved from the

best vocal methods of Europe and America. They embrace a technical consideration of the physiological, psychological, and psychological phases of the human voice and its aesthetical possibilities. Special attention is given to phonetics, diction, articulation, phraseology, etc., and emphasis is placed upon interpretation. The needs of the individual student are considered with the view of developing the voice to the maximum degree of beauty and usefulness. Ballad songs, arias from oratorio and opera, classics, and all others of French, German, Italian, and Scandinavian languages with a view of developing a keen sense of appreciation for all the best in music. One, or two hours credit each quarter according to the number of hours of study and recitation. Professor Jepperson and Mr. Madsen.

Group Vocal Culture.—For the convenience of those whose promise of talent seems yet obscure and whose financial condition is such that they are unable to take private lessons in vocal culture, groups of two, three, or four members are provided, the price of tuition ranging accordingly. This is not a chorus class, but is essentially the same in theory work and gradation in numbers and hours as outlined in Private Vocal Culture. Arrangements as to time, etc., are to be made with the director. Professor Jepperson and Mr. Madsen.

Lower Division Courses

1-p. **Vocal Culture.**—Autumn. One, or two hours credit.

2-p. **Vocal Culture.**—Winter. One or two hours credit.

3-p. **Vocal Culture.**—Spring. One, or two hours credit.

4-p. **Vocal Culture.**—Autumn. One, or two hours credit.

5-p. Vocal Culture.—Winter. One, or two hours credit.

6-p. Vocal Culture.—Spring. One, or two hours credit.

Mixed Chorus.—These courses are given for the purpose of developing the voices of inexperienced singers in the proper reading of music. Sight-reading, monophonic, polyphonic, and homophonic singing. Regular performances are one of its big assets. Professor Jepperson.

7. Mixed Chorus.—Autumn. T. Th. 12:30. One hours credit.

8. Mixed Chorus.—Winter. T. Th. 12:30. One hours credit.

9. Mixed Chorus.—Spring. T. Th. 12:30. One hours credit.

10. Mixed Chorus.—Autumn. T. Th. 12:30. One hours credit.

11. Mixed Chorus.—Winter. T. Th. 12:30. One hours credit.

12. Mixed Chorus.—Spring. T. Th. 12:30. One hours credit.

Male Glee Club.—These courses are offered to students who desire to further perfect themselves in the better forms of polyphonic and homophonic vocal music adaptable to male voices. Training is offered in the art of interpreting duets, trios, quartettes, and ensemble works. Artistic programs are prepared and concert tours made. All singers eligible. M. W. F. Professor Jepperson.

13. Male Glee Club.—Autumn. One hours credit.

14. **Male Glee Club.**—Winter. One hours credit.
15. **Male Glee Club.**—Spring. One hours credit.
16. **Male Glee Club.**—Autumn. One hours credit.
17. **Male Glee Club.**—Winter. One hours credit.
18. **Male Glee Club.**—Spring. One hours credit.

Ladies Glee Club.—These courses are provided for students desiring experience in the applied art of part-singing in duets, trios, quartettes, and in all other standard forms of ensemble vocal arrangements for women's voices. A careful study of diction, articulation, phrasing, and tone-coloring is made, and interpretation in its broadest sense is emphasized. An opportunity of appearing in concert, in cantata, and operetta, locally and in other communities of the state is afforded. T. and Th. Professor Jepperson.

19. **Ladies Glee Club.**—Autumn. T. Th. One hours credit.

20. **Ladies Glee Club.**—Winter. T. Th. One hours credit.

21. **Ladies Glee Club.**—Spring. T. Th. One hours credit.

22. **Ladies Glee Club.**—Autumn. T. Th. One hours credit.

23. **Ladies Glee Club.**—Winter. T. Th. One hours credit.

24. **Ladies Glee Club.**—Spring. T. Th. One hours credit.

31. **Chamber Society of Vocal Art.**—Special training in solo, duet, trio, quartette, and other forms of vocal art. Standard works of the past and present are studied,

and the student is given the opportunity of appearing in professional roles, in recitals, concerts, and in opera. Autumn, Winter, or Spring, T. Th. One hours credit. Professor Jepperson.

32. Chamber Society of Vocal Art.—Continuation of course 31.

33. Chamber Society of Vocal Art.—Continuation of course 32.

Upper Division Courses

Prerequisite, Lower division Private Vocal Culture courses, or their equivalent, or standing for eligibility determined by examination. Professor Jepperson and Mr. Madsen.

51-p. Vocal Culture.—Autumn. One hours credit.

52-p. Vocal Culture.—Winter. One hours credit.

53-p. Vocal Culture.—Spring. One hours credit.

54-p. Vocal Culture.—Autumn. One hours credit.

55-p. Vocal Culture.—Winter. One hours credit.

56-p. Vocal Culture.—Spring. One hours credit.

Mixed Chorus.—Prerequisite, Lower Division Mixed Chorus courses or their equivalent. These courses provide technical solo and ensemble training in the polyphonic and homophonic song classics, and give further experience in oratorio and opera anthology. Diction and phrasing are carefully studied; and an analysis of the song material is made with a view of training the student to attack the problems of part-song interpretation consistent with the highest musical conception. Practical experience in performing is one of its big assets. One hours credit. Professor Jepperson.

57. **Mixed Chorus.**—Autumn. M. W. F. One hours credit.

58. **Mixed Chorus.**—Winter. M. W. F. One hours credit.

59. **Mixed Chorus.**—Spring. M. W. F. One hours credit.

66. **Mixed Chorus.**—Autumn. M. W. F. One hours credit.

67. **Mixed Chorus.**—Winter. M. W. F. One hours credit.

68. **Mixed Chorus.**—Spring. M. W. F. One hours credit.

Male Glee Club.—Prerequisite, Lower Division Male Glee Club work or its equivalent. These courses are designed to furnish advanced technical training in the highest forms of polophonic and homophonic vocal music adaptable to the male voice. Works in solos, duets, trios, quartettes, and ensemble arrangements are thoroughly studied with a view of refining the student's appreciation, and giving him experience in expressing the best aesthetical sentiments in music. Community leadership in glee club work is also emphasized. Artistic programs are arranged and concert tours made. M. W. F. One hours credit each quarter. Professor Jepperson.

69. **Male Glee Club.**—Autumn. M. W. F. One hours credit.

70. **Male Glee Club.**—Winter. M. W. F. One hours credit.

71. **Male Glee Club.**—Spring. M. W. F. One hours credit.

72. **Male Glee Club.**—Autumn. M. W. F. One hours credit.

73. **Male Glee Club.**—Winter. M. W. F. One hours credit.

74. **Male Glee Club.**—Spring. M. W. F. One hours credit.

Ladies Glee Club.—Prerequisite, Lower Division Ladies Glee Club work or the equivalent. Vocal qualifications are determined through examination. Students in this class are required to take private vocal culture. This course is an advanced continuation of the work in the lower division and embraces the more technical training in the higher forms of polyphonic and homophonic vocal music adaptable to ladies' voices. Music organization and leadership are taught and practical experience in conducting class recitations is given. Artistic programs are arranged and independent concert tours made. One hours credit each quarter. Professor Jepherson.

75. **Ladies Glee Club.**—Autumn. T. Th. One hours credit.

76. **Ladies Glee Club.**—Winter. T. Th. One hours credit.

77. **Ladies Glee Club.**—Spring. T. Th. One hours credit.

78. **Ladies Glee Club.**—Autumn. T. Th. One hours credit.

79. **Ladies Glee Club.**—Winter. T. Th. One hours credit.

80. **Ladies Glee Club.**—Spring. T. Th. One hours credit.

Opera and Oratorio.—This course is designed to familiarize the student with the standard works in opera and oratorio and to furnish development for operatic and oratorical talent. The work includes a detailed study of the composer's life, the history, the story, the aesthetic and oratorical roles. All students will be assigned parts and roles according to individual talents, training, and proper experience. One hours credit. (Before registering for this course all students are required to consult with the Music Director).

81. **Opera and Oratorio.**—Autumn. M. W. F. One hours credit.

82. **Opera and Oratorio.**—Winter. M. W. F. One hours credit.

83. **Opera and Oratorio.**—Spring. M. W. F. One hours credit.

87. **Chamber Society of Vocal Art.**—The purpose of this society is to afford special practice in solo, duet, trio, quartette and other forms of vocal art. Standard works of the past and present are studied and the student is given the opportunity of appearing in professional roles, in recitals, concerts and opera. Autumn, Winter, or Spring. T. Th. One hours credit. Professor Jeperson.

88. **Chamber Society of Vocal Art.**—Continuation of course 87.

89. **Chamber Society of Vocal Art.**—Continuation of course 88.

91. **Phonetics.**—See Phonetics 51 in Department of Modern Languages and Latin.

THEORY OF MUSIC

Professor Jepperson
Associate Professor Sauer
Mr. Madsen

Lower Division Courses

1. **Solfeggio.**—Rudiments of music; music notation; terminology; tone relation; ear training; drill and dictation in sight-singing and sight playing; one, two, three, and four-part singing; essentials in conducting, etc. Autumn. M. W. F. Three hours credit. Mr. Madsen.
2. **Solfeggio.**—Continuation of Theory 1. Winter. M. W. F. Three hours credit. Mr. Madsen.
3. **Solfeggio.**—Continuation of Theory 2. Spring. M. W. F. Three hours credit. Mr. Madsen.
4. **Harmony.**—Scales; intervals; triads, chords; sixth and fourth chords; the chord of the dominant seventh and inversions; melody writing; original melodies and harmonizations; vocal composition in duets with application of both poetry and prose. The work is done in the major and minor modes. Autumn. T. Th. Two hours credit. Mr. Madsen.
5. **Harmony.**—The supertonic triad; the submediant triad; the mediant triad; the inversions of the secondary triads; the leading tone triad; dispersed harmony; the dominant ninth chord and inversions; the leading tone seventh chord; the diminished seventh chord and its inversions; original melodies and harmonizations; vocal composition for trio with application of both poetry and prose. The work is done in the major and minor modes. Winter. T. Th. Two hours credit. Mr. Madsen.
6. **Harmony.**—Modulation; to the subdominant; between the tonic, dominant, and subdominant chords; from

a major key to its parallel minor; from a minor key to its parallel major; practical modulations; from a major key to the parallel minor of its dominant; from a minor key to the subdominant of its parallel major; from a major key to the parallel minor of its subdominant; from a minor key to the dominant of its parallel major; combination of modulations; melody writing; original melodies and harmonizations; keyboard work; vocal composition in quartettes; part songs for various combination of voices. Application of both poetry and prose to musical form. The work is done in both the major and minor modes. Spring. T. Th. Two hours credit. Mr. Madsen.

7. History and Appreciation.—The object of this course is to present the essential facts in the history of music; a conservative recital of the growth of the art of music as one distinct manifestation of the development of human thought. One of the chief aims of the course is to train the student for constructive work in community music leadership. The beginnings of music; early pantomime and dance; mythical stories of the origin of musical instruments; ancient Hindoo music; ancient Egyptian music; Biblical and Hebrew music. What we hear in music; how to listen to music. Class work is supplemented with demonstrations with the Victrola. Autumn. M. W. F. Three hours credit. Mr. Madsen.

8. History and Appreciation.—Ancient Greek music; Greek philosophers, social music, theatres, chorus and dances; music of the Roman Empire; history of Chinese music; Chinese musical instruments, musical compositions and ceremonies; the Chinese theatre and dance. Class work is supplemented with demonstrations on the Victrola. Winter. M. W. F. Three hours credit. Mr. Madsen.

9. History and Appreciation.—History of music in Japan; African music; early Christian music; Book

of Mormon music; music of the islands; South American music; American Indian music; North American music. Class recitations are supplemented with demonstrations with the Victrola. Spring. M. W. F. Three hours credit. Mr. Madsen.

10. Public School Methods.—For the benefit of the prospective teacher preliminary work in the essentials and rudiments of music is taught before the regular grade work. First grade; second grade; third grade; fourth grade; fifth grade. The material of these grades is presented according to class methods in public schools and as outlined in the State course. The following subjects are taught for the special benefit of the teacher: solfeggio, (See Theory 1, 2, and 3) essentials in conducting. Special technique and methods of instruction in every phase of the subject is illustrated by the observation of practice and model lessons in the music training class. The Victrola is also used for demonstration purposes. Autumn. T. Th. Two hours credit. Mr. Madsen.

11. Public School Methods.—Sixth grade, seventh grade, eighth grade, ninth grade. The material of these grades is presented according to class methods in public schools and as outlined in the State course. Continuation of subjects for teachers in Theory 10. The school, the mixed chorus, the glee clubs, the orchestra and its various instruments, the band and its various instruments, the musical organizations in the school, how to effect and maintain them; elementary harmony, elementary arranging for orchestra and band; community music; how to organize musical forces, the music material to be used, civic cooperation. The Victrola is also used for demonstration purposes. Prerequisite, Theory 10. Winter. T. Th. Two hours credit. Mr. Madsen.

25. Group Vocal for Normal Students.—This course is especially designed for students majoring in Education. It deals with the fundamental principles of vocal culture. Fundamentals in singing; breathing, tone production,

tone quality, vowels, consonants, etc. Voice and interpretation of songs for the various grades and high schools. Autumn. W. One hours credit. Professor Jepperson.

26. Group Vocal for Normal Students.—Continuation of Theory 25. Winter. W. One hours credit. Professor Jepperson.

27. Group Vocal for Normal Students.—Continuation of Theory 26. Spring. W. One hours credit. Professor Jepperson.

Upper Division Courses

51. Solfeggio.—Prerequisite, Music Theory 1, 2, and 3. In this course the student is offered advanced and technical training in sight-singing and sight playing. The subjects of Theory 1, 2, and 3 in advanced sequence; ear training and dictation, melodic and harmonic; all forms of triads and chords; the dominant and diminished chords and their inversions, etc.; modulations; various forms of cadences; study of hymns, anthems, chorals, cantatas, oratorios, operas, etc.; instrumental music; composition. Autumn. M. Th. Two hours credit. Mr. Madsen.

52. Solfeggio.—Continuation of Theory 51. Winter. M. Th. Two hours credit. Mr. Madsen.

53. Solfeggio.—Continuation of Theory 52. Spring. M. Th. Two hours credit. Mr. Madsen.

54. Harmony.—Prerequisite, Theory 4, 5, and 6. The supertonic seventh in major and minor; inversions of the supertonic seventh chord; secondary seventh chords of the tonic, mediant, subdominant, and submediant in major; secondary seventh chords in minor; inversions of the secondary seventh chords in major and minor; chromatic passing tones; mixed chords; altered

chords with a diminished third; original work in vocal composition for all combinations of voices with poetry and prose. The hymn. Autumn. T. Th. Two hours credit. Mr. Madsen.

55. Harmony.—Inharmonic changes; irregular resolutions of the dominant seventh chord; modulation a minor second upward; modulation a second downward; modulation an augmented fourth upward; general principles of modulation; the suspension; the retardation; inverted suspension; the *appoggiatura* and anticipation; free resolution of suspensions; passing tones and embellishments; accented and double passing tones; original work in vocal composition for all combinations of voices with poetry and prose; the anthem. Winter. T. Th. Two hours credit. Mr. Madsen.

56. Harmony.—Obligato melody; the pedal (organ point); the inverted pedal; melodic figuration; florid melodies; accompaniments; harmonizing of the chromatic scale; the figured chorale, soprano given, bass given; the figured chorale, alto and tenor given; analysis; original work in vocal composition for all combinations of voices; the cantata and oratorio. Spring. T. Th. Two hours credit. Mr. Madsen.

57. Keyboard Harmony.—Prerequisite, Music Theory 4, 5, and 6 and a knowledge of the piano keyboard. Application of the principles and theoretical formulas, as outlined in Music Theory 4, is the basis of work in this quarter. The art of improvising is studied. All the work is done at the keyboard. Autumn. T. One hours credit. Mr. Madsen.

58. Keyboard Harmony.—Application of the principles and theoretical formulas, as outlined in Music Theory 5, is the basis of work in this quarter. Improvisation and harmonization of melody is studied. All the work is done at the keyboard. Winter. T. One hours credit. Mr. Madsen.

59. Keyboard Harmony.—Application of the principles and theoretical formulas, as outlined in Music Theory 6, is the basis of work in this quarter. Improvisation, harmonization, the thematic development of melody is thoroughly studied. All the work is done at the keyboard. Spring. T. One hours credit. Mr. Madsen.

60. Form and Analysis.—Prerequisite, Music Theory 4, 5, 6, 54, 55, and 56. Musical form; figures and their treatment; phrasing; thematic development; chord reading; analytical study of hymn tunes, (Latter-day Saint hymns); folk songs; preludes, the suite; the old dances; the chaconne; the sarabande; the courante; the passacaglia; the minuet; the gavotte; the bourree; the pavane; the rigaudon; the allemande; the gigue; small instrumental forms with examples from Schubert, Mendelssohn, Grieg; forms with trio; original work. Autumn. Th. One hours credit. Mr. Madsen.

61. Form and Analysis.—Continuation of Theory 60. Theme with variations; the sonata and sonata movement with illustrations from Haydn, Mozart, and Beethoven; the inventions of Bach; the slow movement; the minuet form; the scherzo; rondo forms; song forms; finale; sonatina; concerto; overture; the mass; aria form; vocal rondo; cavatina; strophe form; the art song; cantatas; oratorios; original work. Winter. Th. One hours credit. Mr. Madsen.

62. Form and Analysis.—Contrapuntal forms; monophony; homophony; polyphony; imitations; canon; symphony; the fugue; subject; answer; counter-subject; exposition; repercussion and episodes; stretto; organ point; coda; modern dance forms; drawing room music; the waltz; the polka; polanaise; mazurka; galop; march; reverie; rhapsodie; romanza; serenade; tarantella; barcarolle; pastorale; potpourri; nocturne; album-leaf; ballade; berceuse; symphonic poem, comparison of styles of various composers; score reading; original research work. Spring. Th. One hours credit. Mr. Madsen.

63. Counterpoint, Canon, and Fugue.—Prerequisite, Music Theory 4, 5 and 6. In this course and in 64 and 65 emphasis is placed upon the strict forms as a drill work in intellectual activity. Artistic conception in composition and the structure of music generally is thus more thoroughly acquired. The work in this course represents the most scholarly and masterly standard of musical attainment, and is therefore essential to the complete understanding and appreciation of all laws and forms in musical composition. Contrapuntal harmony; elementary counterpoint; counterpoint in the various species in two, three and four parts. Motive development; original work. Autumn. T. Th. Two hours credit. Mr. Madsen.

64. Counterpoint, Canon, and Fugue.—Double counterpoint; sequences, imitation; canons; canon in two parts without accompaniment; the infinite canon; canon in contrary motion; canon with two or more contrapuntal parts in different intervals; motive development; the invention in two parts; the fugue in two parts; keyboard work; original work. Winter. T. Th. Two hours credit. Mr. Madsen.

65. Counterpoint, Canon, and Fugue.—Counterpoint in five or more parts; motive development; the stretta; canon in three and four parts; double canon; circle canon; canon with free harmonious accompaniment; figures in three and more parts; double fugues; the interludium in the fugue; fugue for singing voices and treatment of words; strict vocal fugue for four parts with orchestral accompaniment; double fugue for orchestra; triple fugue and fugue with themes; fugue in five parts; fugue for double choruses in eight parts; choral fugue; the contra fugue; analysis; keyboard work; original work. Spring. T. Th. Two hours credit. Mr. Madsen.

66. Composition, Instrumentation, and Orchestration.—Prerequisite, Music Theory 4, 5, and 6. Introductory technique in composition for voices and other instruments; rhythm; nature of sound; acoustics of wind in-

struments; melodies and their simple treatment; drill in methods of notation and ear training. The orchestra—classification, origin, history and development of its instruments. The band—classification, origin, history and development of its instruments. The stringed orchestra; arranging of music for stringed instruments; arranging the obligato; arranging music for voices and stringed instruments; scoring; development of the conductor; conducting; original work. Autumn. T. and Th. Two hours credit. Mr. Madsen.

67. Composition, Instrumentation, and Orchestration.—The complex treatment of melodies; the wood-wind and reed instruments; variation; form; history, evolution and demonstrating of instruments. Arranging of music for the wood-wind and reed instruments; arranging of music for string, wood-wind and reed instruments; the wood-wind choir; arranging music for voices, string, reed and wood-wind instruments; obligato arranging; the small orchestra; scoring and score reading; functions of the conductor; the band master; conducting; original work. Winter. T. and Th. Two hours credit. Mr. Madsen.

68. Composition, Instrumentation, and Orchestration.—Color; extraneous influences in instrumental music; history, evolution, and demonstrating of instruments; arranging music for string, wood-wind, reed and brass instruments; arranging music for the vocal choir and orchestra; the full score; order of instruments in scoring for orchestra; essentials in conducting orchestra; original compositions with instrumentation for orchestra; the orchestra from Peri to Handel; the orchestra from Haydn to Wagner; orchestral music from Bach to Haydn; orchestral music from Beethoven to Richard Strauss; the modern symphony orchestra and modern orchestral music; arranging for full orchestra; the accompaniment; the instrumentation of vocal music; chamber music; the orchestration of concertos and other instrumental solos. Spring. T. and Th. Two hours credit. Mr. Madsen.

69. Band Arranging.—How to organize and keep bands in high schools and how to arrange music for same. This course will be devoted entirely to methods of teaching band instruments, how to get at the band work, the relationship between the different instruments and how to make the work interesting to the student. The last part of the course will include conducting and arranging. This course enables the band director to make arrangements to suit the grade and instrumentation of this organization and to make available and material that might be needed. It is designed to prepare music supervisors, and all of those who intend to teach music, for band work. Autumn. M. Th. Two hours credit. Associate Professor Sauer.

70. Band Arranging.—Continuation of Theory 69. Winter. M. Th. Two hours credit. Associate Professor Sauer.

71. Band Arranging.—Continuation of Theory 70. Spring. M. Th. Two hours credit. Associate Professor Sauer.

72. History and Appreciation.—Music defined; origin; rudimentary experiments by savage or uncivilized peoples in various parts of the world; the organized and reasoned systems of the dominant races and countries of history; the growth of a positive science of composition, with the theories and rules by which it has been governed; the evolution of those specific types of forms of composition that have most effected progress as a whole; modern conception of the value of music; what we hear in music; how to listen to music. Class work is supplemented with demonstrations by vocal and instrumental soloists and the Victrola. Autumn. M. W. F. Three hours credit. Mr. Madsen.

73. History and Appreciation.—The origin and development of musical instruments and implements, including notations; the advance of vocal and instrumental

performance as an artistic specialty; the lives, works, and styles of composers and performers, both past and present, especially those that are typical or influential; modern conception of music; American songs and song writers; American hymns and hymn writers; what we hear in music; how to listen to music. Class work is supplemented with demonstrations by vocal and instrumental soloists and the Victrola. Winter. M. W. F. Three hours credit. Mr. Madsen.

74. History and Appreciation.—The lives, works, and styles of the great composers and performers of the past and present. The literary and scholarly treatment of musical subjects in books and periodicals; the educational or commercial enterprises devoted to the maintenance or expansion of the art, including schools, societies, publishing houses, manufacturers, etc.; European music; music in Asiatic Europe; music in the United States; modern conception of music and its value; what we hear in music, how to listen to music; history of musical compositions; history and use of musical instruments; the opera, the oratorio. Class work is supplemented with demonstrations by vocal and instrumental soloists and the Victrola. Spring. M. W. F. Three hours credit. Mr. Madsen.

75. Public School Methods.—The subjects in Theory 1, 2 and 3 are studied. Educational value of music. First grade; second grade; third grade; fourth grade. The work of the music supervisor as music teacher and community leader. Special technique and methods of instruction in every phase of the subject are illustrated by the observation of practice and model lessons in the music training class. Lessons in "What We Hear in Music" for the first four grades are studied. The material is presented to the students according to class methods in public schools and as outlined in the State course. Other song material and essentials in conducting are carefully explained. The Victrola is also used for demonstration purposes. Autumn. M. W. F. Three hours credit. Mr. Madsen.

76. Public School Methods.—Continuation of subjects in Theory 1, 2, and 3. The fifth grade; sixth grade; junior high school. The material is presented to the students according to class methods in public schools and as outlined in the State course. Other song material and essentials in conducting are thoroughly explained. The supervisor as music teacher, community leader and civic worker is emphasized. Lessons in "What We Hear in Music" for the fifth, sixth grades and the junior high school are studied. The Victrola is used for demonstration purposes. Special technique and methods of instruction in every phase of the subject is illustrated by the observation of practice and model lessons in the music training class. Prerequisite, Theory 75. Winter. M. W. F. Three hours credit. Mr. Madsen.

77. Public School Methods.—Continuation of the work in Theory 1, 2, and 3. Harmony; senior high school and university music; vocal and instrumental musci material; the high school and college mixed chorus and glee clubs; choral conducting; choral technique and interpretation; the voice; expression in singing; comparative study of different school music systems; history and musical appreciation. The Victrola is used for demonstration purposes. The high school, university, and community orchestra; practical orchestration; the band and band arranging; a study of all orchestral and band instruments; study of lists of all forms of musical composition for all occasions; the duties of the music supervisor as music teacher, community music director, civic worker, and leader. Prerequisite, Theory 75 and 76. Spring. M. W. F. Three hours credit. Mr. Madsen.

INSTRUMENTAL MUSIC

Professor Jepperson
Associate Professor Sauer
Mr. Madsen
Mr. Nelson
Miss Jepperson
Miss Phillips
Mr. Fitzroy
Mr. Mayhew

Lower Division Courses

1. **Band.**—This organization gives students who are making preparation for professional pedagogic work an opportunity to study band organization, military band music, and to perfect themselves in ensemble playing. It brings many associated privileges, such as attendance and playing at various functions, and visiting places otherwise not attainable. Students must be able to play their instruments so that no time will be taken from the class for fundamental instructions which should have been learned in private lessons or through past experience. Material used: standard overtures, operatic selections and other miscellaneous military band music. Autumn. Daily One hours credit. Associate Professor Sauer.

2. **Band.**—Continuation of Course 1. Winter. Daily. One hour credit. Associate Professor Sauer.

3. **Band.**—Continuation of Course 2. Spring. Daily. One hour credit. Associate Professor Sauer.

4. **Band.**—Continuation of Course 3. Autumn. Daily. One hour credit. Associate Professor Sauer.

5. **Band.**—Continuation of Course 4. Winter. Daily. One hour credit. Associate Professor Sauer.

6. **Band.**—Continuation of Course 5. Spring. Daily. One hour credit. Associate Professor Sauer.

7. **Philharmonic Orchestra.**—This organization affords unusual aesthetical opportunities to students studying string, reed and brass instruments, and instruments of percussion. Practice toward perfect rendition of all forms of instrumental solo and ensemble compositions is provided. The evolution of the orchestra and the history functioning value of all the instruments in the orchestra are studied. Contrast and color effects obtained through the various individual instruments and group combinations form a part of the course. Regular appearances in Devotional Exercises, Student Body Exercises, concert tours, local concerts, playing for dramatic productions, and other appearances are special features of the organization. Members of the orchestra are granted social privileges otherwise not obtainable. All students who have studied or who are studying instruments are eligible to membership. The regular course constitutes a study of marches, waltzes and other dance forms, light overtures. Autumn. M. W. F. One hours credit. Mr. Madsen.

8. **Philharmonic Orchestra.**—Continuation of course 7. Study of the evolution of the orchestra. Winter. M. W. F. One hours credit. Mr. Madsen.

9. **Philharmonic Orchestra.**—Continuation of course 8. Practice in accompanying. Study of instruments and of operatic works. Spring. M. W. F. One hours credit. Mr. Madsen.

10. **Philharmonic Orchestra.**—Study of marches, dance forms, overtures, selections, operatic works. Study of the orchestra and composers for the orchestra. Work in accompanying. Autumn. M. W. F. One hours credit. Mr. Madsen.

11. **Philharmonic Orchestra.**—Continuation of

course 10. Study of instruments. Winter. M. W. F. One hours credit. Mr. Madsen.

12. **Philharmonic Orchestra.**—Continuation of course 11. Study of instruments. Spring. M. W. F. One hours credit. Mr. Madsen.



1p-p. Piano.—A study of the scales in different rhythm and touches will be made. The following works will be studied: Czerny Opus 299, Book IV, Mendelssohn's "Song Without Words." The rendition of standard chamber and recital pieces will be required. One lesson a week throughout the year. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

2p-p. Piano.—A study of the use of the pedals and the principles of relaxation and weight touch will be made and also a completion of the study of Mendelssohn's "Song Without Words." "Low Octave Studies" will also be given as well as standard piano compositions. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

3p-p. Piano.—A continuation of the study of "Low Octave Studies" and also technical work. Mozart sonates will be given with classical piano compositions. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

4p-p. Piano.—Scales in double thirds, fourths and sixths will be given. Beginning of the study of the "Cramer Bulow Studies" and the mastering of the classical and modern piano compositions. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

5p-p. Piano.—A continuation of the study of "Cramer Bulow Studies" and also Bach "Two Part Inventions." Public rendition and modern compositions.

One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

6p-p. Piano.—A continuation of course 5. Regular public rendition of standard piano compositions. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

7p-p. Piano Ensemble.—A study of the fundamentals of ensemble playing and the playing of duets at one piano and also two pianos. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson or Miss Jepperson.

8p-p. Sight Reading.—Sight reading in duets, six hands and a study of eight hand arrangements. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson and Miss Jepperson.

9p-p. Piano Ensemble.—Study of more difficult ensemble pieces and public rendition of same. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson and Miss Jepperson.

10p-p. Piano Pedagogy.—A study of the methods and problems of piano teaching in the beginning and elementary grades. Spring. One hours credit. Mr. Nelson and Miss Jepperson.

1v-p. Violin.—The work of this and subsequent courses is so systemized that at the end of the four years instruction the student will have attained a high degree of efficiency in all forms of violin technique. The method of instruction is based upon those of the great masters and schools of the violin in Europe and America. Hohmann, Practical Violin School Book 1 and 2; Wohlfahrt, Melodious Studies; solos. Autumn. One hours recitation a week. One hours credit. Miss Phillips.

2v-p. Violin.—Continuation of course 1. Recitation and credit same as course 1 Winter. Miss Phillips.

3v-p. Violin.—Continuation of course 2. Spring. One lesson a week, one hours credit. Miss Phillips.

4v-p. Violin.—Hohmann, Book III; Scales by Blumenstingal; School of Violin Technique by Schradieck; duets and solos. Autumn. One recitation a week. One hours credit. Miss Phillips.

5v-p. Violin.—Continuation of course 4. Winter. One recitation a week. One hours credit. Miss Phillips.

6v-p. Violin.—Continuation of course 5. Spring. One recitation a week. One hours credit. Miss Phillips.

1c-p. Cornet.—Rudiments of music. Correct breathing. Mouth and lip positions. Tone production; correct fingering. Autumn. One lesson a week. One hours credit. Associate Professor Sauer.

2c-p. Cornet.—Articulating; tonguing; finishing of tone; the tie; the construction of the major scale; interval playing. Winter. One lesson a week. One hours credit. Associate Professor Sauer.

3c-p. Cornet.—Playing easy melodies. Marks of expression; the slur; rhythm; tempo. Spring. One lesson a week. One hours credit. Associate Professor Sauer.

4c-p. Cornet.—Marks of abbreviation; intervals; and slurs; syncopation; marks of expression; the triplet; the double dot; playing in intervals and syncopation; the hold or pause. Autumn. One lesson a week. One hours credit. Associate Professor Sauer.

5c-p. Cornet.—Phrasing; legato tonguing; chromatic scale; minor scales; broken chords or arpeggios. Winter. One recitation a week. One hours credit. Associate Professor Sauer.

6c-p. Cornet.—Training the muscles of the lips; even pressure; tone exercises; Embouchure studies. Spring. One recitation a week. One hours credit. Associate Professor Sauer.

1b-p. Baritone.—Autumn. One recitation a week. One hours credit. Associate Professor Sauer.

2b-p. Baritone.—Winter. One recitation a week. One hours credit. Associate Professor Sauer.

3b-p. Baritone.—Spring. One recitation a week. One hours credit. Associate Professor Sauer.

11b-p. Bassoon.—Autumn. One recitation a week. One hours credit. Associate Professor Sauer.

12b-p. Bassoon.—Winter. One recitation a week. One hours credit. Associate Professor Sauer.

13b-p. Bassoon.—Spring. One recitation a week. One hours credit. Associate Professor Sauer.

21b-p. Bass (Tuba).—Autumn. One recitation a week. One hours credit. Associate Professor Sauer.

22b-p. Bass (Tuba).—Winter. One recitation a week. One hours credit. Associate Professor Sauer.

23b-p. Bass (Tuba).—Spring. One recitation a week. One hours credit. Associate Professor Sauer.

11c-p. Clarinet.—Autumn. One recitation a week. One hours credit. Associate Professor Sauer and Mr. Madsen.

12c-p. Clarinet.—Winter. One recitation a week. One hours credit. Associate Professor Sauer and Mr. Madsen.

13c-p. Clarinet.—Spring. One recitation a week. One hours credit. Associate Professor Sauer and Mr. Madsen.

14c-p. Clarinet.—Autumn. One recitation a week. One hours credit. Associate Professor Sauer and Mr. Madsen.

15c-p. Clarinet.—Winter. One recitation a week. One hours credit. Associate Professor Sauer and Mr. Madsen.

16c-p. Clarinet.—Spring. One recitation a week. One hours credit. Associate Professor Sauer and Mr. Madsen.

1d-p. Drums and Tympani.—Autumn. One recitation a week. One hours credit. Associate Professor Sauer and Mr. Madsen.

2d-p. Drums and Tympani.—Winter. One recitation a week. One hours credit. Associate Professor Sauer and Mr. Madsen.

3d-p. Drums and Tympani.—Spring. One recitation a week. One hours credit. Associate Professor Sauer and Mr. Madsen.

1f-p. Flute.—Autumn. One recitation a week. One hours credit. Mr. Nelson.

2f-p. Flute.—Winter. One recitation a week. One hours credit. Mr. Nelson.

3f-p. Flute.—Spring. One recitation a week. One hours credit. Mr. Nelson.

4f-p. Flute.—Autumn. One recitation a week. One hours credit. Mr. Nelson.

5f-p. Flute.—Winter. One recitation a week. One hours credit. Mr. Nelson.

6f-p. Flute.—Spring. One recitation a week. One hours credit. Mr. Nelson.

11f-p. French Horn.—Autumn. One recitation a week. One hours credit. Associate Professor Sauer.

12f-p. French Horn.—Winter. One recitation a week. One hours credit. Associate Professor Sauer.

13f-p. French Horn.—Spring. One recitation a week. One hours credit. Associate Professor Sauer.

14f-p. French Horn.—Autumn. One recitation a week. One hours credit. Associate Professor Sauer.

15f-p. French Horn.—Winter. One recitation a week. One hours credit. Associate Professor Sauer.

16f-p. French Horn.—Spring. One recitation a week. One hours credit. Associate Professor Sauer.

1o-p. Oboe.—Autumn. One recitation a week. One hours credit. Associate Professor Sauer.

2o-p. Oboe.—Winter. One recitation a week. One hours credit. Associate Professor Sauer.

3o-p. Oboe.—Spring. One recitation a week. One hours credit. Associate Professor Sauer.

11o-p. Organ.—Autumn. One recitation a week. One hours credit. Professor Jepperson and Miss Jepperson.

12o-p. Organ.—Winter. One recitation a week. One hours credit. Professor Jepperson and Miss Jepperson.

13o-p. Organ.—Spring. One recitation a week. One hours credit. Professor Jepperson and Miss Jepperson.

1s-p. Saxaphone.—Autumn. One recitation a week. One hours credit. Associate Professor Sauer.

2s-p. Saxaphone.—Winter. One recitation a week. One hours credit. Associate Professor Sauer.

3s-p. Saxaphone.—Spring. One recitation a week. One hours credit. Associate Professor Sauer.

4s-p. Saxaphone.—Autumn. One recitation a week. One hours credit. Associate Professor Sauer.

5s-p. Saxaphone.—Winter. One recitation a week. One hours credit. Associate Professor Sauer.

6s-p. Saxaphone.—Spring. One recitation a week. One hours credit. Associate Professor Sauer.

11s-p. String Bass.—Autumn. One recitation a week. One hours credit. Associate Professor Sauer.

12s-p. String Bass.—Winter. One recitation a week. One hours credit. Associate Professor Sauer.

13s-p. String Bass.—Spring. One recitation a week. One hours credit. Associate Professor Sauer.

1t-p. Trombone.—Autumn. One recitation a week. One hours credit. Associate Professor Sauer.

2t-p. Trombone.—Winter. One recitation a week. One hours credit. Associate Professor Sauer.

3t-p. Trombone.—Spring. One recitation a week. One hours credit. Associate Professor Sauer.

4t-p. Trombone.—Autumn. One recitation a week. One hours credit. Associate Professor Sauer.

5t-p. Trombone.—Winter. One recitation a week. One hours credit. Associate Professor Sauer.

6t-p. Trombone.—Spring. One recitation a week. One hours credit. Associate Professor Sauer.

11v-p. Viola.—Autumn. One recitation a week. One hours credit. Miss Phillips.

12v-p. Viola.—Winter. One recitation a week. One hours credit. Miss Phillips.

13v-p. Viola.—Spring. One recitation a week. One hours credit. Miss Phillips.

21v-p. Violoncello.—Autumn. One recitation a week. One hours credit. Mr. Mayhew.

22v-p. Violoncello.—Winter. One recitation a week. One hours credit. Mr. Mayhew.

23v-p. Violoncello.—Spring. One recitation a week. One hours credit. Mr. Mayhew.

24v-p. Violincello.—Autumn. One recitation a week. One hours credit. Mr. Mayhew.

25v-p. Violincello.—Winter. One recitation a week. One hours credit. Mr. Mayhew.

26v-p. Violincello.—Spring. One recitation a week. One hours credit. Mr. Mayhew.

Upper Division Courses

51. Band.—Continuation of Instrumental 6. Students will emphasize tone, interpretation and play solo

parts. Autumn. Daily. One hours credit. Associate Professor Sauer.

52. **Band.**—Continuation of course 51. Winter. Daily. One hours credit. Associate Professor Sauer.

53. **Band.**—Continuation of course 52. Spring. Daily. One hours credit. Associate Professor Sauer.

54. **Band.**—Continuation of course 53. Besides holding first chair, the students will be assigned special work. Quartette, solos and conducting. Autumn. Daily. One hours credit. Associate Professor Sauer.

55. **Band.**—Continuation of course 54. Winter. Daily. One hours credit. Associate Professor Sauer.

56. **Band.**—Continuation of course 55. Students will form into duet, trio and quartette organization and render all kinds of ensemble numbers. Introduction to ensemble and chamber music playing. Spring. Daily. One hours credit. Associate Professor Sauer.

57. **Symphony Orchestra.**—Prerequisite, the work of the Philharmonic Orchestra in the Lower Division. The work of this organization includes further study of the subjects outlined under the Philharmonic Orchestra and gives the student the unusual opportunity of technical study in the larger forms of instrumental compositions. Special attention is given to the study of symphonies, symphonic poems, operatic selections, classical selections and accompaniments and the highest class overtures. Artistic concert programs are prepared and rendered locally and on concert tours. Chamber music societies will be organized from the personnel of the organization in which all members of the orchestra will be required to function. The special work of this course comprises a study of overtures, selections, operatic selections, classics, symphonies, symphonic poems, accompaniment for opera, oratorio and other classics. Cham-

ber music for all combinations of instruments. Autumn.
T. Th. One hours credit. Mr. Madsen.

58. **Symphony Orchestra.**—Continuation of course
57. Winter. T. Th. One hours credit. Mr. Madsen.

59. **Symphony Orchestra.**—Continuation of course
58. Spring. T. Th. One hours credit. Mr. Madsen.

60. **Symphony Orchestra.**—Study of symphonies, symphonic poems, overtures, operatic selections, classics, accompaniments for opera, oratorio, and other classics. Chamber music for all combinations of instruments. Autumn. T. Th. One hours credit. Mr. Madsen.

61. **Symphony Orchestra.**—Continuation of course
60. Winter. T. Th. One hours credit. Mr. Madsen.

62. **Symphony Orchestra.**—Continuation of course
61. Spring. T. Th. One hours credit. Mr. Madsen.

51p-p. **Piano.**—A beginning of the study of Czerny "School of Virtuoso" and a standard piano concerto; also concert compositions. One lesson a week. Autumn, Winter, or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

52p-p. **Piano.**—Continuation of Instrumental 51. Also a study of Bach "Three Part Inventions." One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

53p-p. **Piano.**—Continuation of 52p-p.....Public rendition of at least a part of a piano concerto from memory and a public recital during the year will be required. Sonata of Grieg and Beethoven will be studied. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

54p-p. **Piano.**—Beginning of the study of Clementi

"Gradus a Parnassum;" Bach's "Well Tempered Clavichord;" Beethoven's Sonatas will also be given with classical and modern piano compositions. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

55p-p. Piano.—Continuation of 54p-p, and also a study of a recognized piano concerto. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

56p-p. Piano.—Continuation of 55p-p. Public rendition of a concerto and one public recital during the year. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

57p-p. Piano.—A study of difficult arrangements of concerto compositions, overtures, and symphonies in ensemble and public renditions of same. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

58p-p. Piano.—A continuation of 57p-p. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

59p-p. Piano.—A continuation of 58p-p. One lesson a week. Autumn, Winter or Spring. One hours credit. Mr. Nelson, Mr. Fitzroy, Miss Jepperson.

51v-p. Violin.—Special exercises for the violin. Hohmann Book V; Beriot de, Books I and II for positions; School of transpositions, Dancla; duets, solos. Autumn. One recitation a week. One hours credit. Miss Phillips.

52v-p. Violin.—Special exercises for the violin. Scales, Book II Blumenstingal; solos, duets, trios. Winter. One recitation a week. One hours credit. Miss Phillips.

53v-p. Violin.—Modern technique, solos, duets, trios. Spring. One recitation a week. One hours credit. Miss Phillips.

54v-p. Violin.—Special exercises for the violin. Dontz; etudes, Kreutzer; scales and chords, Gruenberg; solos, duets, trios, quartettes. Autumn. One recitation a week. One hours credit. Miss Phillips.

55v-p. Violin.—Continuation of course 54v-p. Winter. One recitation a week. One hours credit. Miss Phillips.

56v-p. Violin.—Continuation of Course 55v-p. Spring. One recitation a week. One hours credit. Miss Phillips.

51c-p. Cornet.—Technique, muscular control, tone exercises, metronome marke, artificial fingerings, more difficult exercises and easy melodies. Autumn. One recitation a week. One hours credit. Associate Professor Sauer.

52c-p. Cornet.—Sight reading. The value of models. Intelligent study of tone exercises; musical terms; tone quality of the tones in the three registers; technical study. Playing of exercises. Winter. One hours credit. Associate Professor Sauer.

53c-p. Cornet.—Double and triple tonguing; the thrill; shake; the turn; the grace note; playing of more difficult exercises. Spring. One recitation a week. One hours credit. Associate Professor Sauer.

54c-p. Cornet.—The art of phrasing and expression; chords of the dominant, the dominant seventh, and the diminished seventh; velocity playing; variations; difficult exercises. Autumn. One recitation a week. One hours credit. Associate Professor Sauer.

55c-p. Cornet.—Alla breve time; trumpet calls; how to tune the instrument; the effect of temperature on the pitch of the cornet; ensemble playing; what to practice; most difficult exercises and solos. Winter. One recitation a week. One hours credit. Associate Professor Sauer.

56c-p. Cornet.—Transposition; interpretation; how to improve musicianship. The student should be able to render solos, cadenzas, etc. as are found in difficult compositions and master all technical details to the point of doing it with artictic ease. Material used: Daily Studies, by Galdman and by Clarke. First Book of Shoebruk, International Method, the most difficult parts of Arban's Exercises, and the different standard solos. Spring. One recitation a week. One hours credit. Associate Professor Sauer.

61c-p. Clarinet.—Autumn.... One recitation a week. One hour's credit. Associate Professor Sauer or Mr. Madsen.

62c-p. Clarinet.—Winter. One recitation a week. One hour's credit. Associate Professor Sauer or Mr. Madsen.

63c-p. Clarinet.—Spring.. One recitation a week. One hour's credit. Associate Professor Sauer or Mr. Madsen.

64c-p. Clarinet.—Autumn.. One recitation a week. One hours credit. Associate Professor Sauer or Mr. Madsen.

65c-p. Clarinet.—Winter. One recition a week. One hour's credit. Associate Professor Sauer or Mr. Madsen.

66c-p. Clarinet.—Spring. One recitation a week. One hour's credit. Associate Professor Saur or Mr. Madsen.

61o-p. Organ.—Autumn. One recitation a week. One hour's credit. Professor Jepperson or Miss Jepperson.

62o-p. Organ.—Winter. One recitation a week. One hour's credit. Professor Jepperson or Miss Jepperson.

63o-p. Organ.—Spring. One recitation a week. One hour's credit. Professor Jepperson or Miss Jepperson.

64o-p. Organ.—Autumn.. One recitation a week. One hour's credit. Professor Jepperson or Miss Jepperson.

65o-p. Organ.—Winter. One recitation a week. One hour's credit. Professor Jepperson or Miss Jepperson.

66o-p. Organ.—Spring. One recitation a week. One hour's credit. Professor Jepperson or Miss Jepperson.

51t-p. Trombone.—Autumn. One recitation a week. One hour's credit. Associate Professor Sauer.

52t-p. Trombone.—Winter. One recitation a week. One hour's credit. Associate Professor Sauer.

53t-p. Trombone.—Spring. One recitation a week. One hour's credit. Associate Professor Sauer.

71v-p. Violoncello.—Autumn. One recitation a week. One hour's credit. Mr. Mayhew.

72v-p. Violoncello.—Winter. One recitation a week. One hour's credit. Mr. Mayhew.

73v-p. Violoncello.—Spring. One recitation a week. One hour's credit. Mr. Mayhew.

OFFICE PRACTICE

Professor Holt

Mrs. Roberts

Mr. Hayes

Mr. Sauls

Miss Newell

Mr. Johnson

Lower Division Courses

11. **Shorthand.**—Principles of shorthand according to the standard Pitman system as set forth in the Phonographic Amanuensis and Reporter's Companion. Autumn, Daily, 10:30. Five hours credit. Professor Holt and Mrs. Roberts.

12. **Shorthand.**—Continuation of Course 11. Winter, 10:30. Five hours credit. Professor Holt and Mrs. Roberts.

13. **Shorthand.**—Continuation of Course 12. Spring, 10:30. Five hours credit. Professor Holt and Mrs. Roberts.

21. **Typewriting.**—Touch Typewriting, according to standard methods. Autumn, Winter or Spring. Six hours a week. Two hours credit. Students may register for two hours daily and three hours credit. See instructors for time. Mrs. Roberts and Miss Newell.

22. **Typewriting.**—Course 21 continued. Autumn, Winter or Spring.

23. **Typewriting.**—Course 22 continued. Autumn, Winter or Spring.

31. **Business English.**—The substance and style of business English; clearness in sentences; correctness of

dictation; force in sentence structure; force in diction; the paragraph. Business forms and usages; the standards of business usage; the mechanical form of the letter, official and social forms; remittances; telegrams and cablegrams; the essential qualities of business letters; claims and adjustments; the various kinds of letters; filing systems. Winter, 9:30. Four hours credit. Professor Holt.

32. Business English.—Continuation of 31. Spring, 9:30. Four hours credit. Professor Holt.

37. Office Management.—The organization and administration of clerical forces. A study of the practice of well organized offices. Some of the subjects discussed are as follows: Office organization, ventilation, heat, light, organization of departments and various scheduling and follow-up systems; detailed organization within the departments; methods of selecting and preparing charts, devices and reports; mechanical equipment; filing and indexing methods. Spring 9:30. Four hours credit.

PHYSICAL EDUCATION

Professor Roberts

Doctor Carroll

Mrs. Ballif

Mr. Twitchell

The purpose of the department is primarily to conserve the health and vitality of the students, to establish correct motor habits and to educate for wholesome and efficient living. To offset the undesirable effects of sedentary school life, vigorous exercises in the form of games, gymastics and competitive athletics is offered. Instruction in personal hygiene is given in connection with the exercise periods so that the students may have a theoretical basis as a guide to correct living.

A thorough physical and medical examination will be given each new student upon entering the institution.

All Freshmen are required to take Physical Education 11, 12 and 13. Upperclassmen are urged to engage in some form of physical exercise, and abundant opportunity is offered for participation in games, sports, hikes, gymnastics, athletics, and dancing.

Students interested in intercollegiate athletic competition in any form will be given opportunity to try out for the athletic teams representing the University, and in case they display sufficient ability to be chosen as members of these teams, they may substitute this work for the required courses in Physical Education.

The department also offers professional courses which are designed to prepare teachers in physical education, directors of athletics, supervisors of dancing and leaders in play and other forms of social and recreational activities.

Students may major in the department of physical education by doing the required amount of work.

Lower Division Courses

11. Elementary Physical Education.—This course will deal with elementary gymnastic exercises, marching tactics, light and heavy apparatus gymnastics, outdoor sports and indoor games. The work for women will include also folk dancing and rhythmic exercises. Personal hygiene lectures and study will occupy one period each week. Required of Freshmen students. Autumn. Three periods each week. One hours credit. Time to be arranged. For women, Mrs. Ballif. For men, Professor Roberts.

12. Elementary Physical Education.—This course will be a continuation of Physical Education 11. Instead of outdoor sports for men boxing, wrestling and basketball will be taught. Required of Freshmen students. Winter. Three periods each week. One hour credit. Time to be arranged. For women, Mrs. Ballif. For men, Professor Roberts.

13. Elementary Physical Education.—This course will be a continuation of Physical Education 12. For men the outdoor Spring sports will take the place of the indoor athletics. Required of Freshmen students. Spring. Three periods each week. One hours credit. Time to be arranged. For women, Mrs. Ballif. For men, Professor Roberts.

14. Advanced Physical Education.—Prerequisites: Physical Education 11, 12, 13. This work will include advanced work in formal gymnastics, light and heavy apparatus exercises and marching tactics. It will also take up gymnastic, dancing in various forms. Designed for Sophomore students and required of all majoring in Physical Education. For men and women combined. Professor Roberts.

15. Advanced Physical Education.—Prerequisites, Physical Education 11, 12, 13, 14. This course will be a continuation of Physical Education 14, designed for sophomore students and required of all majoring in Physical Education. Winter. Three periods each week. One hours credit. Time to be arranged. For men and women combined. Professor Roberts.

16. Advanced Physical Education.—Prerequisites: The five courses described above. This course will be a continuation of Physical Education 15. In addition to advanced work in the exercises described above there will be taught soft-shoe dancing and stage dancing. Designed for sophomore students and required of all students majoring in Physical Education. Spring. Three periods each week. One hours credit. Time to be arranged. For men and women combined. Professor Roberts.

21. Physical Education for Grade Teachers.—This course is designed to prepare students taking the Normal Training courses for the teaching of gymnastics, games; folk dancing, rhythmic exercises, etc., to the children in grade schools. Methods of planning and conducting

exercise periods will be taught and abundant opportunity for practice in teaching under expert supervision will be given. The course will deal also with the common physical asymmetries to be found among school children and how to detect and treat these defects. A study will be made of school furniture and school work as to their effects upon the growing child. Required of all Normals. Time and quarter to be assigned by the Department of Elementary Education. One hours credit. Professor Roberts.

26. Elementary Folk Dancing.—This course consists of a study of national dancing and ring games suitable for school children. Autumn. T. Th. One hour credit. Mrs. Ballif.

27. Elementary Folk Dancing.—Continuation of Physical Education 26. Additional study will include history of dancing from primitive to modern times, folk dances for high school boys and girls. T. Th. One hour credit. Mrs. Ballif.

28. Advanced Folk Dancing.—Continuation of Physical Education 27. The relation of music to dancing is studied and a simple system of rhythm is added. National folk dances taught. Spring. T. Th. One hour credit. Mrs. Ballif.

31. Elementary Aesthetic Dancing.—A course in dancing technique. Fundamentals of position and movement. Interpretive and descriptive dances. Prerequisite, Physical Education 11. Required of all students majoring in Physical Education. Autumn. T. Th. One hour credit. Mrs. Ballif.

32. Elementary Aesthetic Dancing.—Continuation of Physical Education 31. Special emphasis on group and festival dances. T. Th. Winter. One hour credit. Mrs. Ballif.

33. Elementary Aesthetic Dancing.—Continuation of Physical Education 32. Nature dances and pantomime emphasized. Spring. T. Th. One hour credit. Mrs. Ballif.

Upper Division Courses

51. Athletic Coaching and Directing—Foot Ball.—This course is designed to prepare students for the coaching of foot ball. It will deal with the fundamentals of the game, methods of working out plays, systems of offense and defense, the conditioning of teams, etc. Required of all men majoring in Physical Education. Autumn. Five periods each week. One hour credit. Time to be arranged. Mr. Twitchell.

52. Athletic Coaching and Directing—Basket Ball, Wrestling, and Boxing.—This course is designed to prepare for the coaching of basket ball, wrestling and boxing. Students will be thoroughly drilled in these athletic sports and will be taught methods of teaching and coaching them. A large part of the work will deal with diet of athletes and the best methods of getting them into condition for competition. Required of all men majoring in Physical Education. Winter. Five periods each week. One hour credit. Time to be arranged. Mr. Twitchell.

53. Athletic Coaching and Directing—Track, Field, Base Ball, and Tennis.—This course will deal with the technique of training for the various events in track and field athletics, base ball and tennis. Methods of conducting field meets and tournaments will be taught and the students given experience in assisting in coaching. Required of all men majoring in Physical Education. Spring. Five periods each week. One hour credit. Time to be arranged. Mr. Twitchell.

61. Advanced Aesthetic Dancing.—A course in bar technique and dramatic dancing. Dance pantomime and interpretation emphasized. Prerequisites, Physical

Education 31, 32, 33. Required of all students majoring in Physical Education. Autumn. Three periods a week. One hour credit. Mrs. Ballif.

62. Advanced Aesthetic Dancing.—Continuation of Physical Education 61. The organizing of pageant and festival dances will be studied. Winter. M. W. F. One hour credit. Mrs. Ballif.

63. Advanced Aesthetic Dancing.—Continuation of Physical Education 62. Nature dances and dance dramas will be studied. Spring. M. W. F. One hour credit. Mrs. Ballif.

71. Play and Playground Spervision.—This course will deal with the theory and practice of play and playground supervision. A thorough study of the educational, social, physical and hygienic values of play will be made. During the Autumn quarter the play activities of the first few years of a child's life will be studied and methods of supervising these activities will be taught. Required of all students majoring in Physical Education. Autumn. Three periods each week. Two hours credit. Mrs. Ballif.

72. Play and Playground Supervision.—Prerequisite: Physical Education 71. This course is a continuation of Physical Education 71. It will deal with the play activities of the period of later childhood. Required of all students majoring in Physical Education. Winter. Three periods each week. Two hours credit. Mrs. Ballif.

73. Play and Playground Supervision.—Prerequisites: Physical Education 71 and 72. This course is a continuation of Physical Education 72. A study will be made of the play needs of older children and the best methods of meeting these needs. During this course a thorough study of playgrounds will also be made which will cover playground equipment, surfacing, manage-

ment, etc. Required of all students majoring in Physical Education. Spring. Three periods each week. Two hours credit. Mrs. Ballif.

74. Social and Recreational Leadership.—For description of course see Theology 28, 29, 30.

75. Scoutcraft.—For description of course see Theology 25, 26, 27.

91. Applied Anatomy and Kinesiology.—Prerequisites: Physical Education 11, 12, 13, 14, 15, 16 and a good college course in physiology. This course will take up the anatomy of the human body with emphasis upon the study of bones, joints, and the skeletal muscles. Careful examination of gymnastic and athletic exercises will be made with reference to their effect upon the function and structure of the body. A study of the physiology of exercise will also be made. Required of all students majoring in Physical Education. Autumn. Five periods each week. Time to be arranged. Five hours credit. Professor Roberts.

92. Anthropometry, Physical Examination and Elementary Therapeutics.—Prerequisite: Physical Education 71. This course will deal with the methods of conducting physical measurements and physical examinations. The common physical abnormalities such as flat foot, round shoulders, hollow back, spinal curvature, etc., will be studied and the best methods of treating same will be taught. Elementary work in scientific massage and medical gymnastics will also be dealt with. This course will be helpful to all teachers. Required of all students majoring in Physical Education. Winter. Five periods each week. Time to be arranged. Five hours credit. Professor Roberts.

93. Principles of Gymnastic Teaching.—Prerequisites: Physical Education 71 and 72. This course will deal with a study of the various gymnastic systems,

methods of gymnastic teaching, content of exercise periods, 'days' orders, methods of commanding, etc. It is a finishing course for students majoring in Physical Education. Required of all students majoring in Physical Education. Spring. Five periods each week. Time to be arranged. Five hours credit. Professor Roberts.

PHYSICS

Professor Eyring

Assistant Professor Hayes

Mr. Gates

Mr. Olpin

Mr. Williams

Lower Division Courses

11. **Elementary Physics.**—A first course in the elements of mechanics and sound designed for students who do not present entrance physics, but who intend to specialize in science. Two lectures T. and Th. at 10:30 and two three-hour laboratory periods a week. Autumn. Four hours credit. Laboratory fee, \$1.00. Mr. Gates.

12. **Elementary Physics.**—A first course in the elements of electricity and magnetism. Continuation of 11. Two lectures and two three-hour laboratory periods a week. Winter. Four hours credit. Laboratory fee, \$1.00. Mr. Gates.

13. **Elementary Physics.**—A first course in the elements of heat and light. Continuation of 12. Two lectures and two three-hour laboratory periods a week. Spring. Four hours credit. Laboratory fee, \$1.00. Mr. Gates.

21. **Elementary Physics.**—A first course in the elements of mechanics and sound designed for students who do not intend to specialize in science, but who desire

some knowledge of the laws and applications of physics. Autumn, T. and Th., at 10:30. Two hours credit. Assistant Professor Hayes.

22. Elementary Physics.—Electricity and magnetism. Continuation of 21. Winter, T. and Th. at 10:30. Two hours credit. Assistant Professor Hayes.

23. Elementary Physics.—Heat and light. Continuation of 22. Spring, T. and Th. at 10:30. Two hours credit. Assistant Professor Hayes.

31. Household Physics.—A first course in the elements of mechanics and sound especially adapted to the needs of students of home economics. The laboratory work will consist of projects in the measurement of weight and volume, in the mechanics of the sewing machine and other household machinery, in the principles of home plumbing and water supply, in the construction of musical instruments, and in the principles of acoustics. Autumn. Two lectures, T. and Th. at 10:30 and one three-hour laboratory period a week. Three hours credit. Laboratory fee, \$1.00.

32. Household Physics.—A first course in the elements of electricity and magnetism. Continuation of 31. The laboratory work will consist of a study of the construction of household electrical appliances and fixtures and of projects in their repair. Winter. Two lectures, T. and Th. at 10:30 and one three-hour laboratory period a week. Three hours credit. Laboratory fee, \$1.00.

33. Household Physics.—A first course in the elements of heat and light. Continuation of 32. The laboratory work will consist of projects in temperature measurement, refrigeration, heating, ventilation, home lighting, etc. Spring. Two lectures, T. Th., at 10:30 and one three-hour laboratory period a week. Three hours credit. Laboratory fee, \$1.00.

41. Mechanics and Sound.—This course and courses

42 and 43 are more advanced than Physics 11, 12, and 13. They constitute a general College course in physics. The completion of this general course will satisfy the requirements in physics made of engineering and medical students; and it is a prerequisite for all the more specialized courses in physics. Prerequisite courses: High school physics or Physics 11, 12, 13 and Mathematics 11. Freshman or Sophomore year. Daily. 1:30 to 3:30. Five hours credit. Laboratory fee, \$1.00.

42. Electricity.—Continuation of 41. Winter. Daily 1:30 to 3:30. Five hours credit. Laboratory fee, \$1.00.

43. Heat and Light.—Continuation of 42. Spring. Daily. 1:30 to 3:30. Five hours credit. Laboratory fee, \$1.00.

Upper Division Courses

56. Molecular Physics and Heat.—Kinetic theory of gases, theory of Brownian movements, methods of measuring molecular magnitudes, laws of thermodynamics and their application to gases, osmotic pressure, change of state, etc. Prerequisites, Calculus, and Physics 41, 42, 43. Senior year. Autumn. Five hours credit. (Not given this year).

57. Experimental Physics.—Molecular Physics and Heat.—Measurements of specific heat of gases; density, depression of the freezing point, and raising of boiling point of the different solutions, etc. Vapors, viscosity of liquids and gases, high temperatures. Senior year. Prerequisite, Physics 56. Winter. Daily. Five hours credit. Laboratory fee, \$3.00. (Not given this year).

65. Electricity and Magnetism.—General principles of magnetism, and electro-magnetism. Static electricity, direct and alternating currents. J. J. Thompson's "Electricity and Magnetism" will be used for reference. Prerequisite, Calculus, and Physics 41, 42, 43. T. and Th. at 3:30. Autumn. Two hours credit. Assistant Professor Hayes.

66. Electricity and Magnetism.—Continuation of 65. T. and Th. at 3:30. Winter. Two hours credit. Assistant Professor Hayes.

67. Experimental Physics, Electricity and Magnetism.—Use of potentiometers, adjustment and use of sensitive galvanometers, calibration of ammeters and voltmeters, accurate measurements of resistance, measurements of earth's magnetic field; absolute measurements of current, potential difference, resistance, capacity; study of direct and alternating current, dynamos and motors; study of alternating current with capacity and inductance in the circuit. This course should be taken in connection with course 65. Prerequisites, Courses 41, 42, 43. M. and F. 3:30-6:30. Autumn. Two hours credit. Laboratory fee \$1.00. Assistant Professor Hayes.

68. Experimental Physics.—Electricity and Magnetism. Continuation of 67. M. and F. 3:30-6:30. Winter. Two hours credit. Laboratory fee \$1.00.

69. Radio Instruments and Measurements.—A review of the fundamentals of electromagnetism and the principles of alternating currents; a study of the properties of oscillatory circuits, antenna systems and radiation, damped and undamped wave radio telegraphy, and the thermionic vacuum tube as a detector, amplifier, and oscillation generator. Prerequisites, courses 66 and 67. Lecture M. and F. at 3:30. Laboratory T. and Th. 3:30-6:30. Spring. Four hours credit. Laboratory fee \$1.00. (Not given this year).

75. Experimental Optics.—Geometric optics. During the first part of the course experiments outlined in Mann's Manual of Advanced Optics will be performed, and during the last part special work with the echelon and concave grating will be given. Laboratory fee \$1.00. Lecture T. and Th. at 3:30. Laboratory M. and F. from 3:30 to 6:30. Spring. Four hours credit.

76. Optics and Astrophysics.—Geometric optics

theory of optical instruments, including interferometer, echelon, and diffraction grating, physical optics, Maxwell's electro-magnetic theory of light. Spectroscopy and its application to astronomical problems. Prerequisite, two years' college Physics, and Calculus. Autumn. Daily. Five hours credit. (Not given this year).

78. Optics and Astrophysics.—Continuation of 77. Winter. Five hours credit. (Not given this year).

79. Optics and Astrophysics.—Continuation of 78. Spring. Five hours credit. (Not given this year).

86. Mechanics and Wave Motion.—Fundamental equations of mechanics and their application to physical problems, vibrations of strings, rods, and plates, sound waves, water waves and Hertzian waves. Prerequisites, Calculus and courses 41, 42, 43. M. T. Th. F. at 8:30. Spring. Four hours credit. (Not given this year).

87. Laboratory Arts.—Glassblowing, frilling, grinding, and polishing; hard and soft soldering; silvering glass; and other miscellaneous processes connected with the construction and use of apparatus in physical laboratory. Autumn. T. and Th. 3:30 to 6:30. Two hours credit.

88. History of Physics.—Designed to acquaint the prospective teacher of physics with the historical development of the subject. Winter. T. and Th. 9:30. Two hours credit. (Not given this year).

89. Seminar.—A meeting of the instructors in physics and interested students for the review of current literature of the subject. No credit.

Students who major in physics have the following courses prescribed: Physics 41, 42, 43, 65, 66, 67, 75.

POLITICAL SCIENCE

Professor Jensen

Assistant Professor Robinson

Lower Division Courses

1. Introduction to the Problem of Government.—A study of the place of politics in the social sciences and the problems of constitutional and popular government. The nature of government; sphere of government; constitutional government; rigid and flexible constitutions; suspension of constitutional guarantees; political parties and their functions; representative government; executive branch of government; the legislature and its functions; proportional representation; budgetary procedure; presidential and parliamentary government; the judicial function; state and local government in the United States; federal government and its characteristics. This course is open to all students. It should be elected in the Freshman year by all who intend to major in Political Science, to be followed in the Winter quarter by Political Science 10, and in the Spring quarter by Political Science 11. Autumn. 9:30. Four hours credit. Professor Jensen.

10. National Government of the United States.—Historical development of American government; framing of the Constitution, its growth; constitutional rights of the citizen; the President, his election, powers, and functions; the Cabinet and national administration; composition, organization, and procedure of Congress; powers of Congress; political parties in the national government; the judicial power of the United States; the Supreme Court and the inferior courts; government of the territories. Winter, 9:30. Four hours credit. Professor Jensen.

11. State and Local Government in the United States.—Continuation of course 10. Nature of federal

government; place of the states in the nation; state constitutions; the governor and the administration; state legislatures; state judiciary; reconstruction of state government; history of local government; government of towns, counties, townships, and villages; municipal organization and administration. Spring, 9:30. Four hours credit. Professor Jensen.

20. Comparative Constitutional Government.—A study of the organization and operation of the governments of England, France, Italy, Germany, former Austria-Hungary, Switzerland, the British self-governing colonies, the leading Latin American nations. Attention is also given to the new European revolutionary governments. Four hours credit. (Not given this year).

21. Political Parties and Party Government.—A study of the organization and methods of action of political parties in the United States; the development of the party system; convention and direct primary systems; permanent party organization; elements of cohesion in the party system; the party system in the leading European countries. Four hours credit. (Not given this year).

40. Elements of Law and Jurisprudence.—An examination of the nature and binding force of law; sources and forms of law; extension of Roman and English legal systems; development of Common Law and Equity; the Common Law in the American colonies and States; elements composing English and American law; classification of the authorities and their interpretation. Brief attention will be given to the fundamentals of the law of Contracts, Torts, Agency, and Criminal law. The course is non-professional in character. Four hours credit. (Not given this year).

43. (a) Contracts.—A study of the creation and performance of contracts; who contract; who are not bound under contract; consideration; illegal contracts;

fraud; the law of evidence as applied to written and verbal contracts; the application of the Statute of Frauds; specific performance; damages for breach of contracts. Each principle will be illustrated by several cases.

(b) **Property.**—Kinds of property; how title to personal property is acquired; estate in real property; rights of one person in real property of another; different ways of acquiring title. Bay's Cases will be used. Autumn, 8:30. Four hours credit. Assistant Professor Robinson. (See Finance and Banking 21).

44. (a) **Negotiable Paper.**—A study of negotiable instruments; forms of bills, notes, drafts, and checks; acceptance of draft and certification of checks; banks' liability on checks; special requirements as to form; defenses to suits on usury, forgery, theft, raising, illegal debts, alterations, infancy, insanity, prior payment; transfer and negotiation; contract of parties; indorsers and when they may be discharged; holders for value and in due course; method and time of presentment in case of dishonor.

(b) **Sales.**—Sales distinguished from barter, gifts, and bailments. Formalities essential in making a sale. The application of the Statute of Frauds, Warranties; transfer of title; obligations of contracting parties; offer and acceptance, breach and remedies; Uniform Sales Acts. Bay's Cases will be used. Winter, 8:30. Four hours credit. Assistant Professor Robinson. (See Finance and Banking 22).

45. **Agency and Partnership.** (a) **Agency.**—Relationship of principal and agent; responsibilities of each; classes of agents and termination of authority. Partnership.—Its firm name, capital, and property; rights and obligations of each partner; third persons and the partnership; acts which dissolve the partnership.

(b) **Corporations.**—Corporations defined; its crea-

tion; rights and duties of stockholders, directors, and officers; rights and limitations of creditors. Bay's Cases will be used. Spring, 8:30. Four hours credit. Assistant Professor Robinson. (See Finance and Banking 23).

Upper Division Courses

***50. Principles of Political Science.**—This course aims to present a systematic study of the principles of political science. Among the subjects studied are: the scope and method of political theory; the origin and basis of the state; the nature of the state; forms of the state; functions of the state; sovereignty; forms of government; distribution of the powers of government; citizenship and nationality. This course should be taken by all students majoring in Political Science. Autumn, 10:30. Four hours credit. Professor Jensen.

56. American Political Theories.—A study of the development of American political ideas of the Colonial period; the Revolution; Jeffersonian Democracy; Jacksonian Democracy; the Slavery Controversy; the nature of the Union. Two hours credit. (Not given this year).

57. American Political Theories.—Continuation of course 56. Background of American political thought; typical interpretations of democracy; the consent of the governed; legislative and executive powers; the courts and justice; responsibility of judges to the democracy; the unit of democratic organization; internationalism, pacifism, militarism; the political party and unofficial government; government and liberty; political ideas in American literature. Two hours credit. (Not given this year).

60. Government of American States.—A study of the structure and functions of American State govern-

*Arrangements may be made for graduate credit for this course.

ment. Among the subjects studied are the constitutional history of the States; the organization, powers, and activities of the legislative, executive, and judicial departments; the relations of the State to the local government. Particular attention is given to the State and local government of Utah. Four hours credit. (Not given this year).

***63. Municipal Government.**—A study of municipal growth and development in the United States and in the principal European countries. Attention is given to municipal structure, organization, and administration. Among the subjects treated in their relation to municipal government are : the history of municipal growth, public improvements, finances, home rule, politics, and municipal ownership. Spring, 10:30. Four hours credit. Professor Jensen.

70. Government of England.—Four hours credit. (Not given this year).

80. International Law.—A study of the sources, principles, and sanctions of international law; the history of international law; the law of peace, war, and neutrality. Attention is given to the problems growing out of the World War and to the resulting modifications of international law. Four hours credit. (Not given this year).

***83. American Diplomacy.**—This course deals with diplomatic questions during the colonial period; boundary questions; neutral rights and obligations; fisheries; the Monroe Doctrine and its subsequent interpretation; Panama Canal questions; Spanish-American relations; acquisition of new territory; American diplomatic problems in the Pacific and the Far East; the peaceful settlement of international disputes. Some attention is given to the methods and practices of diplomacy. Winter, 10:30. Four hours credit. Professor Jensen.

*Arrangements may be made for graduate credit for this course.

90. **Constitutional Law of the United States.**—Four hours credit. (Not given this year).

Graduate Course

101. **Research.**—Open to properly qualified graduate students. Registration only after consultation. Hours and credit to be arranged. Professor Jensen.

PHILOSOPHY OF EDUCATION

Professor Woodward

Professor A. N. Merrill

Professor Nuttall

Assistant Professor Ollorton

Assistant Professor Peterson

Lower Division Courses

1. **Elementary Education.**—See Elementary Teaching 1.

36. **Introduction to the Scientific Study of Education.**—The aim of this course is to give the students an idea of the function of the school as a social institution and to aid them in the selection of a specific curriculum which will best meet their educational needs. General school problems and facts about education which should be known by every intelligent citizen will be discussed. Autumn or Spring. M. W. F. Three hours credit. Professor Woodward.

Upper Division Courses

81. **Science of Education.**—This course should be preceded by a course in General, or Educational Psychology. A consideration of the fundamental problems of educational theory and practice; the aims, standards and content of education. A study of the principles of determining educational values. A summary of the psychol-

ogical investigations that have been made relative to the principal school subjects. The origin and present status of educational theory in the problems of liberal vocational guidance, doctrines of formal discipline and interest. This course must precede or be taken in connection with Secondary Training. It should be taken during the first quarter of the junior year. Autumn. M. T. F. Four hours credit. Professor Woodward.

83. Secondary Education.—Discussion of the pedagogy of secondary school subjects, types of learning, individual differences, adolescence, courses of study, organization and management of secondary schools. This course must precede or be taken in connection with, Secondary Training. Psychology 11, and Education 16. It should be taken during the Winter quarter of the junior year. Winter. M. T. Th. F. Four hours credit. Professor Woodward.

86. History of Education.—A discussion of the educational theories and practices of the Greek, Roman, and Mediaeval periods of history. Emphasis will be placed upon the the following topics: The rise and growth of Christian education, the rise of universities, the renaissance, the development of science and the scientific method, and the more recent and contemporary development of educational theory and practice. Knowledge of European History presupposed. Spring. M. W. F. Three hours credit. Professor Woodward.

Graduate Courses

136. Character Education.—This course considers education as training for social efficiency, and the school as one of several agencies for such training. It discusses the moral significance of the various studies and activities of the school, direct and indirect moral instruction and moral training. Alternates with course 137. Autumn. T. Th. Two hours credit. Professor Woodward.

137. Philosophy of Education.—Lectures, readings,

and discussions. Education will be studied as a social agency in relation especially to other factors at work in a democratic society. The general topic will be a consideration of the aims and methods appropriate to a system of education in a democratic society such as ours. There will be considered in this course such fundamental problems as the relation of the individual and society, subject and object, knowledge and action, the physical and moral. Alternates with course 136. Autumn. M. W. F. Three hours credit. Professor Woodward.

138. History of American Education.—The purpose of this course is to present in detail the evolution of the educational practices and institutions of the American people. The elementary school, the secondary school, and the institutions of higher education will be traced through (a) the period of transplanting of European institutions—the town and dame school, the Latin grammar school, and the politico-ecclesiastical college; (b) the period of modification of institutions to suit new conditions—the district school, the academies, the denominational or independent college; and (c) the period of development of an educational system of free common schools, high schools, state universities, and technical schools, in harmony with American political and social ideals and institutions. Time and credit to be arranged. Professor Woodward.

141. Objectives and Product of Secondary Education.—The purpose of this course is to determine and present the objectives of high school subjects with the idea of adaptation to this region. Students will work out the educational product possible with some particular high school subject. How the subject matter can be best used to secure the proper knowledge-product habit-product and attitude-product. Alternates with 142. Winter. M. W. Two hours credit. Professor Woodward.

142. Public Education in Utah, Its Objectives and Problems.—This is an advanced course intended primar-

ily for those interested in and likely to become instrumental in shaping the educational ideals of this region. The class will be divided into committees for the purpose of making a critical study of the elements of this particular civilization with the view of determining which of these elements should be encouraged and become the center of our educational system. Alternates with course 141. Winter. T. Th. Two hours credit. Professor Woodward.

143. Education and Nationalism.—The development of National Systems of Education in Western Europe and America. This course offers a survey of the part which education has played in the development of modern nationalities; it involves particularly a detailed study of the development of the national system of education during the nineteenth century. Comparative study will be made of the essential features of the most important modern educational means for the attainment of political ends, colonial educational policies or the use of the improvement of backward peoples, the function of education in retarded culture, the part which education may play in the reconstruction of nations, will be considered. Time to be arranged. Two hours credit. Professor Woodward.

144. Philosophy as Applied to Education.—The course deals with the fundamental philosophies of modern times and their bearing and influence upon educational systems in Europe and America. Time to be arranged. Three hours credit. Professor Woodward.

147. Thesis Work.—In certain courses, students may be given an additional unit of credit on presentation of a satisfactory thesis on an assigned topic, embodying the results of independent work. The consent of the instructor is necessary before registering. Autumn, Winter or Spring. One hour's credit. Professor Woodward.

148. Research Work in the Philosophy of Educa-

tion.—The work of this course is largely individual research. Most of the material and many of the problems studied will be in connection with masters' thesis. Ability to think independently and organize is a prerequisite. Time to be arranged. From four to eight hours credit, depending upon the problems. Professor Woodward.

PSYCHOLOGY

Professor Poulson

Professor Nuttall

Assistant Professor Dusenberry

Lower Division Courses

11. General Psychology.—This course is intended to give a general survey of the field of psychology and to form a basis for the later study of more advanced or specialized courses in the subject. The following topics will receive special attention: Physiology of the nervous system, our inherited equipment of instincts and capacities, influence of training and environment, mental hygiene, and fields of applied psychology. This course may not be taken until the sophomore year. Autumn, 8:30. M. W. F. Three hours credit. Professor Nuttall.

21. Elementary Educational Psychology.—This is an elementary course combining the important topics of both general and educational psychology, and forming the basis of the specific courses in educational theory and practice. It is designed especially to give prospective teachers an understanding of child nature and of how children learn. Topics emphasized will be (1) instinctive tendencies, (2) habit forming, (3) memory, association, and economy of learning, (4) the affective life, and (5) the thought processes. About one-fifth of the course will be given to the more significant characteristics of children at successive levels of growth. One laboratory period each week will be devoted to simple experiments

(especially in learning) and to the observation of children. Repeated each quarter. Section I, 8:30, Section II, 9:30. Four hours credit. Laboratory fee, \$1.00. Assistant Professor Dusenberry.

26. Psychology of Advertising.—Experimental methods and the principles of psychology as applied to the problems of successful advertising will constitute the general subject matter of this course. Among the topics to receive especial consideration are the following: (1) Relation of instincts, habits, memory, and emotions to advertising, (2) appropriateness of different mediums and types of appeal for arousing attention and securing the desired response, (3) critical examination of actual advertising campaigns from the point of view of psychology. Prerequisite, Psychology 11. Three hours credit. (Not given this year.)

Upper Division Courses

55. Social Psychology.—This course treats of the social aspects of mental life. The chief topics to be considered are the following: The social nature of man, the nature and development of the self, psychology of leadership, language and communication, our social inheritance, public opinion, and the social functions of institutions. Prerequisite, Psychology 11. Spring, 8:30. M. W. F. Three hours credit. Professor Nuttall.

63. Physiological Psychology.—An intensive study of the nervous system and its correlation with mental phenomena. Prerequisite, Human Physiology and Psychology 11. Three hours credit. (Not given this year.)

74. Psychology of Learning.—This is an advanced course in educational psychology and will consist of a detailed consideration of principal types of human learning and the nature and causes of individual differences. Prerequisite, Psychology 11. Winter, 8:30. M. W. F. Three hours credit. Professor Nuttall.

79. Psychology of Exceptional Children.—A brief consideration of the mental characteristics of bright and dull children and how to diagnose their educational needs. A survey of typical plans for the treatment of bright and dull children will be made. Prerequisite, either Psychology 11 or 21. Two hours credit. (Not given this year.)

Graduate Courses

104. Psychology of Adolescence.—This course is especially adapted to help furnish practical teachers and community leaders with a more intelligent understanding of human nature as exhibited in boys and girls during the period of adolescence. The social and moral problems connected with this period will receive special consideration. Two hours credit. (Not given this year).

117. Mental Tests.—This is an advanced course in the theory and technique of intelligence testing and is designed especially to meet the needs of teachers and social workers who wish to gain an understanding of the various types of mental tests, their relative validity and how they are to be applied. Prerequisite, Psychology 11 or 21. Four hours credit. (Not given this year.)

PUBLIC SPEAKING AND DRAMATIC ART

Professor Pardoe

Mr. _____

PUBLIC SPEAKING

Lower Division Courses

1. Principles of Speech.—The elements of speech, proper carriage, principles of voice building, and simple outlining of speeches constitute the major portion of this course. The overcoming of self-consciousness and ability

to feel at ease is one of the most important problems developed to a profitable conclusion. Autumn, 9:30. Five hours credit. Professor Pardoe.

2. Vocabulary Building.—Psychology of speech, forms, emphasis and means of imagery, constitute the major portion of this course. Means and methods of vocabulary building developed. Winter, 9:30. Five hours credit. Professor Pardoe.

3. Speech Analysis.—The study of masterpieces and models of speech composition. Practice in delivery and analysis. Much of this course is planned for platform practice, extemporaneous and impromptu. Each student must try out in one or more of the Student Body forensic activities. Spring, 9:30. Five hours credit. Professor Pardoe.

4. Debating.—Elementary course to teach argumentation and debate. Stating of argumentative fact, briefing and means of arranging material. Open to students by arrangement with debating council. Winter. Hours by appointment. One hour credit.

5. Advanced Debate.—A course to give intensive training preparatory for inter-collegiate debating. Winter. Hours by appointment of debating council. Two hours credit.

6p-7p. Genaral Public Speaking.—An intensive course in public speaking, especially designed for those who need personal attention or who are preparing for missionary work. One hour credit for each recitation a week during a quarter. Professor Pardoe.

8p-9p-10p. Psychology of Public Speaking.—Individual analysis of personal strengths and defects, to augment better qualities and to overcome detrimental habits. Professor Pardoe.

*All courses having p following the number are private work and require special fees. Given only to students majoring in the subject, or who have marked ability. One hour credit for each recitation a week during a quarter.

Upper Division Courses

51. Personal Diction Course.—An intensive course dealing with individual speech and gesture defects. Required of all students majoring in this subject. Spring. T. Th. Two hours credit. Professor Pardoe.

52. Phonetics.—A course prescribed for all majoring in Public Speaking. Given to aid students to acquire a better understanding of English diction and language dialect. (See Department of Modern Language and Latin. Phonetics 51).

DRAMATIC ART

Lower Division Courses

11. Elementary Elocution.—Fundamental principles of dramatic art. This course is intended to introduce students to means and manner of studying the printed page. Thought getting from standard selections of literature is the basis of this course. Elements of memory work developed. Autumn. M. T. Th. F. 8:30. Four hours credit. Professor Pardoe.

12. Classical Literature.—An application of the elements of reading to great scenes of classical literature. Voice and body technique are scientifically treated with relation to their importance to the art of interpretation. Winter. M. T. Th. F. 8:30. Four hours credit. Professor Pardoe.

13. Dramatic Monologue.—Special attention given to the dramatic monologue and soliloquy. The ability to project thought analysis without losing the spirit of se-

lection is given special attention. Spring. M. T. Th. F., 8:30. Four hours credit. Profesor Pardoe.

14. Interpretative Literature.—A study of thought and emotion with relationship to printed page. Character delineation forms great portion of work. American authors given special consideration. Courses 11, 12 and 13 prerequisite. Daily, 10:30. Five hours credit. Professor Pardoe.

15. Dialogue and Scene Presentation.—The great scenes from Shakespeare, Dickens, Tennyson, Bulwer Lytton, Goldsmith and Sheridan form basis of course. Character analysis and presentation. Winter. Daily, 10:30. Five hours credit. Professor Pardoe.

16. Dialect.—The common dialect problems developed. Scotch, Irish, Cockney, Italian, Swedish, Yiddish, Negro, and German receive special attention. Phonetics basis of study. Spring. M. W. F. 10:30. Three hours credit. Professor Pardoe.

Upper Division Courses

61. Impersonation.—An advanced course leading to the reading of full programs. Only those who have built a proper voice foundation and can qualify in courses 1, 2, 3, 11, 12, 13, 14, 15 and 16 are eligible. Public recitals form good portion of practice work. Autumn and Winter. M. W. F. 1:30. Six hours credit. Professor Pardoe.

62. Play Production.—Means and methods of stage technique. Students qualifying for this course are required to produce six or more one-act plays and will assist in major productions of the University. Stage settings and make-up form part of course. All work done in Studio Theatre. Winter and Spring. M. W. Th. Six hours credit. Advanced students only. Professor Pardoe.

63. Normal Reading.—A course designed to teach

teachers how to teach reading. Individual instruction given as far as possible and student demonstrations are features of course. Summer. Two or four hours credit. Professor Pardoe.

64p. **Normal Reading and Its Pedagogy.**—A course given to teachers of reading and voice, presented so as to give the latest psychology and development of methods. Survey and research work required. One hour credit for each recitation a week during a quarter. Professor Pardoe.

65p-66p-67p. **Psychology of Emotions and Dramatic Technique.**—This course given only to advanced students and deals with gesture technique and its relationship to emotions. Elementary psychology a prerequisite. One hour credit for each recitation a week during a quarter. Professor Pardoe.

SECONDARY TEACHING

Professor Nuttall

Professor Woodward

Professor A. N. Merrill

Professor Eastmond

Assistant Professor Boyle

Secondary Training School Faculty

Upper Division Courses

50. **Science of Education.**—See Philosophy of Education 81.

51. **Secondary Education.**—See Philosophy of Education 83.

52. **The High School Curriculum.**—This course deals with the social principles and forces which should control the formation of the curriculum in high schools, particularly the rural high school. The economic and

social background and needs of the rural community will be studied and the relation of the high school courses to the vocational needs of pupils will be emphasized. Autumn. Three hours credit. Professor A. N. Merrill.

53. Secondary Methods.—The details of class room management and special methods in teaching in high schools will be considered. This course will parallel or precede Secondary Teaching 54, and the two courses are designed to meet the professional requirement for the high school teacher's diploma. Students should take the course in special methods in their major subject in addition to this course. Autumn or Winter. Three hours credit. Professor Woodward.

54. Secondary Training.—The student will do practice teaching in the Secondary Training School in his teaching major and must present a statement from the major professor to show sufficient scholarship to begin to teach. Practice teaching in any other subject than the major subject can be done only by special arrangements. Hours will be arranged with the director of the training school at the time of registration. Autumn, Winter, or Spring. Ten hours credit. Professor Nuttall, Assistant Professor Boyle, and Secondary Training School Faculty.

56. Arts Supervision.—See Art 85.

57. Special Methods in Teaching English.—(Not given this year.)

58. Methods of Teaching History and Social Science.—(Not given this year.)

59. Methods of Teaching Music.—See Music Theory 77.

63. Principles of Gymnastic Teaching.—See Physical Education 58.

64. **Materials of Religious Education.**—See Theology 66.
65. **Materials of Religious Education.**—See Theology 67.
66. **Materials of Religious Education.**—See Theology 68.
67. **Methods of Teaching Agriculture and the Industrial Arts.**—(Not given this year.)
68. **Sex Education.**—See Zoology 66.
69. **Measurements of High School Teaching.**—A study of tests, scales, etc., now available for use in high school subjects. Also a study of the use of intelligence tests in placing students. For seniors and graduates. Four hours credit. (Not given this year.)

SOCIOLOGY

Professor Swenson

Lower Division Course

11. **Elementary Principles of Sociology.**—Continuation of course 11. Socialization and social control. A study of social laws, forces, and ideals, and their relation to social control. Winter, 2:30. Four hours credit. Professor Swenson.

Upper Division Courses

51. **Community Organization and Leadership.**—This course deals with the problems of community life and action and the method of promoting them through organization and leadership. Special attention will be given Church organizations in their relation to the recreational, ethical, and spiritual life of the community. Spring, 2:30. Four hours credit. Professor Swenson.

53. Rural Sociology.—A course in the study of the conditions of community life with constructive proposals for economic, educational, recreational, and social betterment. Spring. Three hours credit. Professor Swenson.

55. Americanization of Foreigners.—This course is intended for those who expect to teach foreign born or who will be concerned with organizing or supervising the work of Americanization of immigrants. Spring, 1:30. Two hours credit. Professor Swenson.

61. Educational Sociology.—An introductory study of the principles of educational sociology and their application to the theory and practice of school administration, curricula, and methods of instruction. Winter. Three hours credit. Professor Swenson.

THEOLOGY

Lower Division Courses

1. Literature of the Bible.—A consideration of the Orations of Moses, Book of Job, Book of Ruth, Book of Esther, Psalms of David, Proverbs of Solomon, Book of Amos, Paul's discourse on Mars Hill. Autumn. T. Th., 11:30. Two hours credit. Mr. Merrill.

2. Biography of the Old Testament.—A study of the lives, personal characteristics, and places in history as human products and divine instruments of the following characters: Adam, Noah, Abraham, Joseph, Moses, Joshua, Samuel, David, Daniel, Jeremiah. Winter, T. Th., 11:30. Two hours credit. Mr. Merrill.

3. Biography of the New Testament.—A consideration of the lives, characters, and special missions of the following: John the Baptist, Jesus, Peter, John the Revelator, Paul. Spring, T. Th., 11:30. Two hours credit. Mr. Merrill.

4. **The Foundations of Mormonism.**—A consideration of the coming forth and the contents of the Book of Mormon. Autumn, T. Th., 11:30. Two hours credit. Mr. Romney.

5. **The Foundation of Mormonism.**—In this course emphasis will be placed on the epoch-making events in church history. Winter, T. Th., 11:30. Two hours credit. Mr. Romney.

6. **The Foundations of Mormonism.**—A study of the principles and doctrines of the Church. Two hours credit. Spring, T. Th., 11:30. Two hours credit. Mr. Romney.

7. **History of Christian Religions.**—This course will consider religion as a revelation of God to man, and will investigate the pre-Mosaic periods as preparatory to the Mosaic period and the Mosaic as preparatory to the advent of the Christ. Autumn, T. Th., 11:30. Two hours credit. Associate Professor J. M. Jensen and Mr. Maeser.

8. **History of Christian Religions.**—A continuation of 7. The personal ministry of the Christ and the work of the apostles will be the subject matter. Winter, T. Th., 11:30. Two hours credit. Associate Professor J. M. Jensen and Mr. Maeser.

9. **History of Christian Religions.**—A continuation of 8. The course will deal with the Great Apostacy and the Restoration of the Gospel of Christ. Spring, T. Th., 11:30. Two hours credit. Associate Professor J. M. Jensen and Mr. Maeser.

10. **Religion and Ethics.**—A consideration of the relative value and the parallel development of religion and ethics, the criteria for judging religious and ethical standards, the relation of faith and free agency, the function and sphere of the Church, and the ordinances and

ceremonies of spiritual and social forces. Special emphasis will be given to the consideration of human conduct as manifested in everyday ethics and practical application of religious beliefs. Autumn, T. Th., 11:30. Two hours credit. Professors Martin and Cummings, and Assistant Professor Boyle.

11. Religion and Ethics.—A continuation of 10. Winter, T. Th., 11:30. Two hours credit. Professors Martin and Cummings, and Assistant Professor Boyle.

12. Religion and Ethics.—A continuation of 11. Spring, T. Th., 11:30. Two hours credit. Professors Martin and Cummings, and Assistant Professor Boyle.

13. Comparative Christian Religions.—A study of the important Christian religions of the present day: Catholicism; some of the important sects of Protestantism; Christian Science; and the Salvation Army movement. The origin and history of each will be considered at sufficient length to give a background for a careful analysis of the principles and practices of the modern Christian churches. While the course is designed to familiarize all the students who take it with the doctrines of the various Christian churches, it is hoped that the study will prove of special value to those who may later travel as Latter-day Saint missionaries among the people of those churches. Autumn, Winter, or Spring, T. Th., 11:30. Two hours credit. Professor M. C. Merrill.

14. Church Ordinances and Government.—The course will deal with the history, form and purpose of church ordinances, church organization, church activities, and church discipline. Autumn, Winter, or Spring, T. Th., 11:30. Two hours credit. Professor A. N. Merrill.

15. Genealogy.—Every family in the Church of Jesus Christ of Latter-day Saints needs a genealogist who knows how to search out and make correct records

of the ancestors and descendants of the family. To prepare young people for this work, this course in Genealogy is given. Some of the subjects are: The place of Genealogy in the Plan of Salvation; history of Genealogy; the spirit of Elijah and its effects in the world; making genealogical records; preparation of temple sheets; temple work; work in the genealogical library; heirship and relationship; names and nick-names; family organizations, etc. Autumn, Winter, or Spring, T. Th., 11:30. Two hours credit. Professor Partridge.

16. The Religious Life and its Development.—

This course deals with the nature of childhood religion, methods of studying children, and the aims of religious education for the various stages of development. Certain problems of teaching that are fundamental to the promotion of growth in religion and germane to the conditions of religious teaching will be taken up, such as, provision for, and control of, social experience; the development of motives and religious habits; religious ideas and their use; training children to think correctly about problems of conduct and social relations; the religious educational power of the family; the practice of prayer; the meaning of faith; the place of the story in religious training; our religious, inherited equipment; the relationship of religion and morals; the accumulation of religious material for religious teaching; and the making of religious plans. Autumn, T. Th., 11:30. Two hours credit. Assistant Professor Dusenberry.

17. The Religious Life and its Development.—A

continuation of course 16. Winter, T. Th., 11:30. Two hours credit. Assistant Professor Dusenberry.

18. The Religious Life and its Development.—A

continuation of course 17. Spring, T. Th., 11:30. Two hours credit. Assistant Professor Dusenberry.

19. Public Discourse.—

The subject matter of this course will consist of a study of the principles of the

Gospel. Special emphasis will be placed upon the organization of this material for public delivery. Practical training will be given in preaching and public speaking. Autumn, T. Th., 11:30. Two hours credit. Professor Pardoe and Assistant Professor Cannon.

20. Public Discourse.—A continuation of course 19. Winter, T. Th., 11:30. Professor Pardoe and Assistant Professor Cannon.

21. Public Discourse.—A continuation of course 20. Spring, T. Th., 11:30. Professor Pardoe and Assistant Professor Cannon.

22. Hymnology.—A study of the historical, doctrinal, prophetic, and poetic content of Latter-day Saint hymns; classified in accord with the dominant features of the hymns. Previous singing experience a prerequisite. Autumn, T. Th., 11:30. Two hours credit. Professor Reynolds, Professor Jepperson, and Mr. Madsen.

23. Hymnology.—A continuation of course 22. Winter, T. Th., 11:30. Two hours credit. Professor Reynolds, Professor Jepperson, and Mr. Madsen.

24. Hymnology.—A continuation of course 23. Spring, T. Th., 11:30. Two hours credit. Professor Reynolds, Professor Jepperson, and Mr. Madsen.

25. Scout Leadership.—A course in scoutcraft and leadership designed especially for scoutmasters and prospective scout leaders, but open to all students interested in boy work. Some of the topics to be considered are as follows: History and system of organization of the Boy Scouts of America, class requirements and the study of the scoutcraft involved, hikes and meetings, scout contests and games, story telling, etc. Autumn, T. Th., 11:30. Two hours credit. Professor Eyring.

26. Scout Leadership.—A continuation of course 25.

26. 27. **Scout Leadership.**—A continuation of course

28. **Social and Recreational Leadership.**—This course is given to meet the needs of church and school recreation leaders. The various forms of play for primary and secondary school, and church auxiliary organizations will be studied and workable plans compiled. Each student will have opportunity for practice. Autumn, T. Th., 11:30. Two hours credit. Mrs. Ballif.

29. **Social and Recreational Leadership.**—Home entertainments. This course is designed to prepare leaders in directing home entertainments. Plans for special holiday parties, occasional and informal affairs will be studied. Winter, T. Th., 11:30. Two hours credit. Mrs. Ballif.

30. **Social and Recreational Leadership.**—Social dancing. This course is designed to prepare students for teaching and supervising social dancing in wards and communities. Ballroom management and dance music will be given particular emphasis.. Spring, T. Th., 11:30. Two hours credit. Mrs. Ballif.

Upper Division Courses

51. **Evolution and Religion.**—This course pre-supposes a knowledge of the fundamental principles of life. Topics considered are: Biological facts derived from the fields of comparative anatomy, embryology, paleontology, geographic distribution, etc.; explanations proposed to account for these facts; modifications of these explanations in the light of genetic research; direction and extent of human evolution from the biological and religious view points; a careful study of the Latter-day Saint conception of the origin, extent, and purpose of life in the light of the preceding facts and discussion. Autumn, T. Th., 11:30. Two hours credit. Professor Henderson.

52. **Evolution and Religion.**—Continuation of

course 51. Winter, T. Th., 11:30. Two hours credit. Professor Henderson.

53. Evolution and Religion.—Continuation of course 52. Spring, T. Th., 11:30. Two hours credit. Professor Henderson.

54. Life and Teachings of Christ.—The course is based on the text of the four gospels. Emphasis is placed on the application of church principles and ideals as they relate to our present time. Autumn, T. Th. Two hours credit. Professor Swenson.

55. Life and Teachings of Christ.—Continuation of course 54. Winter, T. Th. Two hours credit. Professor Swenson.

56. Life and Teachings of Christ.—Continuation of course 55. Spring, T. Th. Two hours credit. Professor Swenson.

57. Philosophy and Religion.—The purpose of the course is to answer the following questions: What are the fundamental capacities and yearnings of man? What is the nature and value of spiritual vigor? Why believe in a personal God? Why have a church? Why be a Christian? Why be a Latter-day Saint? The pedagogy of high school theology and the training for social service through church activities will also be discussed. Lectures, class discussions, round table talks and written reports. Autumn, T. Th., 11:30. Two hours credit. Professor Osmond.

58. Philosophy and Religion.—Continuation of course 57. Winter, T. Th., 11:30. Two hours credit. Professor Osmond.

59. Philosophy and Religion.—Continuation of course 58. Spring, T. Th., 11:30. Two hours credit. Professor Osmond.

60. Comparative Religions.—A general perspective of the important religions of the world. Among the religions considered are: Religions of primitive people, of Babylonia and Assyria, Egypt, Judaism, Mohammedanism, Zoroastrianism, the religions of China, Japan, Greece, Rome, and of the Celts and Teutons. Some attention is also given to a study of the important Christian sects. Autumn, T. Th., 11:30. Two hours credit. (Not given this year.)

61. Comparative Religions.—Continuation of course 60. Winter, T. Th. Two hours credit. (Not given this year.)

62. Comparative Religions.—A continuation of course 61. Spring, T. Th. Two hours credit. (Not given this year.)

63. History of the Christian Church.—Jewish background; the religious and political world at the Messiah's birth; the rise of Christianity; the founding of the church; church organization; Paul and gentile Christianity; relations of Christianity to the Roman government; the intermingling of pagan philosophy with Christian doctrine; doctrinal developments and controversies; the origin and growth of the papacy; the Church Fathers; growth and suppression of heresies; the monastic system; conflict between the Empire and the papacy; the Crusades; religious effect of the Renaissance; the reforming Councils; the Protestant Reformation and the rise of religious toleration; missionary activity; present status of Christendom. Autumn, T. Th., 11:30. Two hours credit. Professor Jensen.

64. History of the Christian Church.—Continuation of course 63. Winter, T. Th., 11:30. Two hours credit. Professor Jensen.

65. History of the Christian Church.—A continuation of course 64. Spring, T. Th., 11:30. Two hours credit. Professor Jensen.

66. Materials of Religious Education.—This course comprises the selection and organization of biblical material for curriculum purposes. Special attention will be given to the fundamental principles and doctrines of religious beliefs. Autumn, T. Th., 11:30. Two hours credit. Professor Nuttall.

67. Materials of Religious Education.—Continuation of course 66. Winter, T. Th., 11:30. Two hours credit. Professor Nuttall.

68. Materials of Religious Education.—Continuation of course 67. Spring, T. Th., 11:30. Two hours credit. Professor Nuttall.

81. Ethics and the Old Testament.—This course deals with the background of Old Testament literature, with the evolution of Israel's moral and religious ideals, with the ethics of Judaism as compared with the ethics of other peoples. The course will make a study, in the light of present-day information, of the various prophets of the Old Testament, and of the significance of their message in world history. In connection with the study of the growth of the idea of a personal God, the philosophy of Theism will be discussed. Autumn, T. Th. Two hours credit. Professor Woodward.

82. Ethics and the Old Testament.—The work during the winter quarter will be a continuation of 81, with a further development of philosophies underlying religious life. Materialism and Personalism will be studied in the light of present-day scientific and philosophic thought, and of modern revelation. Winter, T. Th. Two hours credit. Professor Woodward.

83. Ethics and the Old Testament.—The spring quarter will be an integrating course designed to bring together the elements of Old Testament ethics, Personalism, and the fundamental philosophy of Mormonism. Such subjects as Freedom of the Will, Eternal Progress,

Immortality of the Soul, The Resurrection, Revelation, Man's Relationship to God, Authority and Church Organization will be studied in the light of modern philosophy and Old Testament ethics. Spring, T. Th. Two hours credit. Professor Woodward.

VOCATIONAL EDUCATION

Professor A. N. Merrill

Professor Woodward

Lower Division Course

46. Rural Education.—This course deals with those problems which confront the teacher in the rural communities of the intermountain states. Adapting the work of the upper grades in the elementary schools and the first and second years of the high schools to the needs of the communities. The second half of the course will be devoted to a more detailed consideration of the elementary agricultural problems that are adapted to the respective grades with emphasis on special methods of presentation. Autumn, Winter, or Spring. Four hours credit. Professor A. N. Merrill.

Upper Division Courses

91. General Methods in Vocational Education.—This course is designed for students who intend to become teachers of the industrial subjects. Principles governing the determination of specific objectives in vocational education. A consideration of methods of attack in solving vocational problems. A discussion of typical problems arising in connection with work conducted under the Smith-Hughes Plan. Winter. Four hours credit. Professor A. N. Merrill.

92. Vocational Education.—This course will deal with the aims and needs of vocational education. How this type of vocational activity answers the demand of

society. The place it should fill in the schools of today. The types that should be fostered under western conditions. The principles governing the determination of the curriculum. The aid extended by state and federal governments. Autumn. Four hours credit. Professor A. N. Merrill.

94. Vocational Guidance.—A survey of the developments in the field of vocational guidance. Purpose of vocational guidance. Early vocational experience as a factor in determining an occupation. Equipment and method of a counsellor. The school as a vocational guidance center. Types of reading which lead to a proper occupational adjustment. Vocational guide as a constructive social course. Relation of vocational guidance to industrial education. Spring. Four hours credit. Professor A. N. Merrill.

96. Rural and Vocational Surveys.—This course is designed primarily to prepare students with methods and technique of conducting rural and vocational surveys. The course will make a detailed study of possibilities for greater efficiency in the industrial life of the community, of opportunities for a richer social life, and of all conditions pertaining to population and vocation in the ordinary rural district. Students will be expected to make such surveys of some particular school district. Various methods of conducting the survey will be discussed. Two hours credit. Professor A. N. Merrill.

Graduate Courses

101. Problems in Part-Time Education.—This course deals with the methods and problems of part-time education. The character of the population to be educated, methods of teaching in part-time classes, job analysis and course organization. Two hours credit. Professor A. N. Merrill or Professor Woodward.

103. Evening and Continuation Schools.—This

course is designed for a study of the entire field of adult education. In particular that part of the population who have not availed themselves of educational opportunities in earlier life. It deals with the possibilities for and the organization of part-time courses for all classes of people, also with the methods which have been found a success in carrying on part-time and continuation work for adults. Three hours credit. Professor A. N. Merrill or Professor Woodward.

105. Legislation Growing Out of Smith-Hughes Work.—In this course, students will make a detailed study of the Smith-Hughes Act and of all legislation growing out of this act. Relations of Federal Board to State Boards, of State Boards to local organizations. Two hours credit. Professor A. N. Merrill or Professor Woodward.

106. Thesis Work.—In certain courses, students may be given an additional unit of credit on presentation of a satisfactory thesis on an assigned topic, embodying the results of independent work. The consent of the instructor is necessary before registering. Professor A. N. Merrill or Professor Woodward.

107. Research Work in Vocational and Rural Education.—The work of this course is largely individual research under direction of the professor in charge. Most of the material and many of the problems studied will be in connection with the master's thesis. Only graduate students may register for the course. Ability to think independently and organize is a prerequisite. From four to eight hours credit, depending upon the problem. Professor A. N. Merrill or Professor Woodward.

THE EXTENSION DIVISION

The usefulness of the University is not confined to the campus. Through the Extension Division the instruction of the Institution is carried broadcast and its influence extended. Information that has been accumulated through productive scholarship is disseminated to all classes of people and in forms adapted to their requirements. Persons who are ambitious to get an education, but who cannot go away to school, need not be denied the instruction which the University is prepared to give. Through correspondence studies they may educate themselves at home. The Extension Division wishes in particular to be of service to the Church.

ORGANIZATION

To carry out the aims of the Extension Division, the following subdivisions have been instituted: **Correspondence Instruction, Lectures and Entertainments, and Social Service.**

CORRESPONDENCE INSTRUCTION

A varied list of subjects is offered for correspondence instruction. Reading courses are provided for practical people who are interested in adding to their fund of information in their vocation, and who desire to improve their cultural education. No credit is given for this work. For those who are working toward a higher degree, courses are offered which carry university credit.

EXTENSION CLASSES

Furthermore, the faculty of the school goes out into the communities and organizes regular classes which receive very much the same instruction as residence students.

LECTURES AND ENTERTAINMENTS

Members of the faculty have addressed or entertained over fifty thousand people during the past year. Their services have been given without cost to the communities, save for the actual travelling expenses. A professional lyceum course made up of lectures and artists from the university is offered to high schools, clubs, and communities at normal cost.

SOCIAL SERVICE

To develop community leadership and to stimulate uplifting activities is the purpose of the Bureau of Social Service. Assistance is given clubs and organizations in the presentation of plays and pageants. The Music Department gives band, orchestra, and glee club concerts out in the State. Social dance demonstrations are given in communities and games and home entertainments are taught. Every possible agency that will contribute to the betterment of community and individual life is employed through this bureau.

LEADERSHIP WEEK

In January, 1922, the first annual Leadership Week was held at the University. During this week there were conducted short courses in twenty-three subjects. Over three thousand people were in attendance, representing forty-five stakes. Leadership Week, (January 22-26) will be a feature of Extension Division activities during the coming year.

REGULATIONS

1. The Brigham Young University offers no degree for work done wholly in absence.

2. A student may begin a course for which he is prepared at any time, but may not complete more than four credits per month without permission. His report must be distributed with approximate evenness throughout the

period of study. Reports may be rejected if student attempts to compress his work unduly.

3. An undergraduate student may not take correspondence work while in residence without the written permission of the Attendance and Scholarship Committee and the Deans concerned.

4. A student who does not report either by letter or lesson within a period of ninety days may thereby forfeit his right to further instruction in the course.

5. The University Extension Division will pay the postage on lessons and assignments sent to the student, but the student must pay postage on mail coming to the University. Care should be taken to see that adequate postage is placed on the envelope by the student.

FEEES

For the registration fee of fifteen dollars a student may register for ten hours of credit-bearing work. Work taken in excess of ten credit hours in the case of the first plan will be charged for at the rate of \$1.50 a credit hour. In case a student desires to register for only one subject the work will be charged for at the rate of \$2.00 a credit hour.

CORRESPONDENCE COURSES

AGRICULTURE

Soils.—General course in the study of soils. Three hours credit. Professor Martin.

Potatoes and Sugar Beets.—A study of the origin, botanical characteristics, selection, diseases, and soil requirements of sugar beets and potatoes. Three hours credit. Professor Martin.

History of Breeds of Live Stock.—A study of all the breeds of live stock, special emphasis being placed on the conditions under which the breeds were developed, their

adaptability to Western conditions, and the men who have done the development work. Text(Plumb's "Types and Breeds of Farm Animals." Four hours credit. Professor Cannon.

ART

Commerical Art and Illustration.—A study of the reproduction of illustrations, printing plates and mediums. Composition; pen and ink methods; drawing; color study; practical illustration work; etching; cartooning. Two hours credit. Professor Eastmond.

COMMERCE AND BUSINESS

Marketing.—This course covers a study of various methods of marketing agricultural products and raw and manufactured products of all kinds. Three hours credit. Professor H. V. Hoyt.

Business Statistics.—Deals with the fundamental principles of statistics and statistical indices and units. The determination of trends in business and agriculture will be attempted through the study of reports. Two hours credit. Professor Hoyt.

ECONOMICS

Elementary Economics.—This course deals with the general principles underlying the industrial life. Four hours credit. Professor Swenson.

EDUCATION

12. **Introduction to the Scientific Study of Education.**—The aim of this course is to give the student an idea of the function of the school as a social institution and to aid him in the selection of a specific curriculum which will best fit his educational needs. Three hours credit. Professor Woodward.

51. Science of Education.—This course should be preceded by courses in General or Educational Psychology. It is a consideration of the fundamental problems of educational theory and practice. Four hours credit. Professor Woodward.

66. Secondary Education.—Discussion of the pedagogy of secondary school subjects, types of learning, individual differences, adolescence, courses of study, organization and management of secondary schools. This course must precede or be taken in connection with Secondary Training, Psychology 11 and Education 16. Four hours credit. Professor Woodward.

75. History of Education.—A discussion of the educational theories and practices of the Greek, Roman and Mediaeval periods of history. Knowledge of European history presupposed. Three hours credit. Professor Woodward.

111. Character Education.—This course considers education as training for social efficiency and the school as one of several agencies of such training. Graduate credit. Two hours. Professor Woodward.

112. Philosophy of Education.—Education will be studied as a social agency in relation especially to other factors at work in a democratic society. Three hours credit. Professor Woodward.

127. Research Work in the Philosophy of Education.—This work is largely individual research work under the direction of the professor in charge. From four to eight hours credit, depending upon the problems. Professor Woodward.

SCHOOL ADMINISTRATION AND SUPERVISION

68. General Education Administration.—A study of the present organization of state, city, county, and

rural school systems. Four hours credit. Professor Woodward.

117. Administration of Rural Schools.—A general consideration of the problems of rural school administration. Four hours credit. Professor Woodward.

127. Research Problems in School Administration.—The work of this course is largely individual research under direction of the professor in charge. From four to eight hours credit, depending upon the problem. Professor Woodward.

ENGLISH

11. Themes, Exercises, and Prescribed Reading.—Five hours credit. Mr. Merrill.

12. Continuation of English 11.—Four hours credit. Mr. Merrill.

Newswriting.—A course in newsgathering and writing. English 11 and 12 prerequisites. Four hours credit. Associate Professor Jensen.

Short Story Writing.—The criticism of manuscript submitted by the students. Prerequisites, English 11 and 12. Four hours credit. Professor Osmond.

Survey of English Literature.—Six hours credit.

GEOLOGY AND GEOGRAPHY

11. Introductory Geology.—This course aims to present a general view of the field of Geology in its three important aspects: Dynamic, structural and historical. Of especial value to teachers. Four hours credit. Professor Buss.

54. Field problem to students offering some credit in Geology or Physiography and desiring advanced work,

prescribed readings and field work or some local problem will be assigned. Registration only after conference with Professor Buss. Three hours credit. Professor Buss.

61. Commercial Geography.—Touches upon the geographic and human factors that have governed the development and localization of industries. Five hours credit. Professor Buss.

62. Principles of Geography.—A course intended especially for teachers and to make them acquainted with the principles underlying the subjects, which if understood and used raises Geography above the level of a memory exercise. Deals also with illustrative geographic materials and their use. Three hours credit. Professor Buss.

HEALTH WORK

Biology 61. Hygiene and Sanitation.—Designed to meet state requirements in health education. Four hours credit. Professor Carroll.

HISTORY

— **American History.**—A general course covering the history of America from its discovery down to the present time. Five hours credit. Professor Christen Jensen.

MATHEMATICS

11. Plane and Spherical Trigonometry.—The study of the trigonometric functions of angles, and the solution of triangles, trigonometric equations, and the theory and use of logarithms. This course is fully illustrated by practical problems. Five hours credit.

12. College Algebra.—A brief review of High School Algebra; the theory of the fundamental operations and the solution of conditional equations; method of undetermined co-efficients; partial fractions; permuta-

tions; graphs of equations of the first and second degree in two variables; and an introduction to Analytic Geometry. Five hours credit.

MODERN LANGUAGES AND LATIN

Professor Cummings
Miss Wunderly

The correspondence courses in this department are offered to such students as can furnish satisfactory evidence of an adequate groundwork in the pronunciation of the language desired. This ordinarily presupposes the equivalent of two quarters of college work or one unit of high school work in the language. Pronunciation cannot be successfully learned without personal contact with the instructor. All foreign language work necessarily begins with pronunciation.

FRENCH

3. **Elementary French.**—Review of the elements of grammar and pronunciation. Considerable easy reading and accurate written work. (See general catalogue French 3.) Four hours credit. Miss Wunderly.

4. **Advanced French.**—Emphasis is given to grammar which is taught by means of questions, reproduction exercises and composition. A certain minimum of vocabulary arising out of abundant easy reading is required. (See general catalogue French 4, 5, and 6). Prerequisite, twelve hours of French. Four to twelve hours credit. Miss Wunderly.

57. **Advanced French Reading.**—The main emphasis is placed on considerable reading and the acquisition of a wide vocabulary. The student develops some ability to write French. (See general catalogue French 57, 58, 59). Prerequisite, twenty-four hours of French. Four to eight hours credit. Miss Wunderly.

26. Scientific French.—Reading will be from a general text and also in the student's chosen field of research. Prerequisite 16 hours of French. (See general catalogue French 26, 27, and 28.) One to three hours credit.

SPANISH

3. Elementary Spanish.—Review of the fundamentals of pronunciation and grammar. Considerable easy reading and accurate written work. (See general catalogue, Spanish 3.) Four hours credit. Presupposes twelve hours of Spanish.

4. Advanced Spanish.—Emphasis is given to habitualizing the principles of grammar by means of questions, reproduction exercises and composition. A certain minimum of vocabulary arising out of abundant easy reading is required. (See general catalogue Spanish 4, 5, 6.) Prerequisite twelve hours of Spanish. Four to twelve hours credit.

57. Advanced Spanish Reading.—The student is required to do considerable easy reading and acquire a wide vocabulary and an ability to write Spanish. (See general catalogue Spanish 57, 58, and 59.) Prerequisite twenty-four hours Spanish. Four to eight hours credit.

GERMAN

3. Elementary German.—Review of the fundamentals of pronunciation and grammar. The student reads some easy narrative and reports a quantity of written work. (See general catalogue German 3.) Four hours credit.

4. Advanced German.—The course provides ample and thorough drill in the principles of grammar. Problems of construction word building. Abundant easy reading. (See general catalogue German 14, 15, and 16.) Prerequisite, twelve hours of German. Four to twelve hours credit.

MUSIC THEORY

54. **Harmony.**—Elementary and Advanced. A general discussion of the structure of music and its relationship to other arts and sciences. Six hours credit. Mr. Madsen.

72. **History and Appreciation of Music.**—Six hours credit. Mr. Madsen.

PUBLIC SPEAKING

6p. **General Public Speaking.**—An intensive course in public speaking especially designed for those who need personal attention or who are preparing for missionary work. Five hours credit. Professor Pardoe.

THEOLOGY

31. **Missionary Course.**—This course aims to put the student in possession of information necessary to the spread of the Gospel abroad and the teaching of its doctrines at home. It is calculated also to give training in methods of getting scriptural knowledge. Two hours credit. Professor Brimhall. A special price of \$1.00 is made to missionaries in the field. The regular price of the course is \$5.00.

15. **Genealogical Record Making.**—Designed to assist people in genealogical research and the keeping of records. Two hours credit. Professor Partridge.

HOME ECONOMICS

Child Care.—A series of readings on this subject will be assigned.

Home Management.—A course of directed reading designed to assist the housewife in solving the common problems of the home.

Clothing Problems.—A list of readings will be given in textiles; clothing, its care and renovation; making of garments; millinery, and art in dress.

TRAINING SCHOOLS

L. John Nuttall, Jr., M. A., *Director*

SECONDARY SCHOOL FACULTY

Wm. H. Boyle, A. B., *Principal*

Reinhard Maeser, A. B., *English*
Thomas C. Romney, M. A., *History and Soc. Science*
Ray Olpin, *Mathematics*
B. F. Cummings, A. B., *Modern Languages*
Olga Wunderly, A. B., *Modern Languages*
Fred E. Buss, A. B., *Economic Geography*
John E. Hayes, *Commercial Arithmetic*
C. Y. Cannon, B. S., *Agriculture*
Florence Jepperson, *Music*
Elmer Nelson, *Music*
Franklin Madsen, *Music*
Robert Sauer, *Music*
Alene Phillips, *Music*
Aretta Young, B. Pd., *Art*
Bertha Roberts, *Shorthand and Typewriting*
W. H. Snell, A. B., *Woodwork*
P. P. Bigelow, *Auto Mechanics*
E. D. Partridge, B. S., C. E., *Mechanical Drawing*
Blanche Mendenhall, B. S., *Domestic Art*
Effie Warnick, B. S., *Domestic Science*
Walter P. Cottam, M. A., *Biology*
Franklin Y. Gates, B. S., *Chemistry and Physics*

ELEMENTARY SCHOOL FACULTY

C. LaVoir Jensen, *Eighth Grade*
Ina Johnson, *Seventh Grade*
Fannie McLean, *Sixth Grade*
Pearl Snow, *Fifth Grade*
Emma Sharp, *Fourth Grade*
Cordelia Anderson, *Third Grade*
Hazel Brockbank, *Second Grade*
Ramona Farrer, *First Grade*
Marguerite Jepperson, *Music*

SECONDARY TRAINING SCHOOL

Purpose.—The primary aim of the Secondary Training School is to offer a first class high school course so that the students will receive every advantage ordinarily found in a good high school. To this is added the advantages of the use of many parts of the University plant—library, laboratories, shops, gymnasiums, etc. It is possible to offer a richer and more varied course than can possibly be had in schools the same size in the school districts of the State. The educational and social welfare of the students will be the first care of the teachers of the school.

Organization.—The school will be organized as a full secondary school. Proper adjustment will be made to the junior high school below. The organization will be so made that the university students registered for secondary training may do practice teaching in the Secondary Training School. The careful preparation demanded of these practice teachers and the careful supervision given them will make this work add to, rather than lessen the value of the school to the students.

Activities.—The students have the advantage of association with the social activities of the University. As far as possible regular high school competitive and social functions in high school student body life will be organized.

Courses.—The courses offered include the standard fundamental high school courses, together with a rich variety of elective courses from which pupils may choose. The opportunities for vocational work are especially good. The following courses are offered:

Theology:

(a)	$\frac{1}{2}$ Unit
(b)	$\frac{1}{2}$ Unit
(c)	$\frac{1}{2}$ Unit
(d)	$\frac{1}{2}$ Unit

Language:

English a	1 Unit
English b	1 Unit
English c	1 Unit
English d	1 Unit
Dramatic Art	1 Unit
German a	1 Unit
German b	1 Unit
French a	1 Unit
French b	1 Unit
Spanish a	1 Unit

Mathematics:

Mathematics a (Algebra).....	1 Unit
Mathematics b (Geometry).....	1 Unit

Science:

Physics a	1 Unit
Chemistry a	1 Unit
General Biology a	1 Unit

History and Social Sciences:

European History a	1 Unit
Com. Civics a	1 Unit
United States History a	$\frac{1}{2}$ Unit
Civics b	$\frac{1}{2}$ Unit
Sociology a	$\frac{1}{2}$ Unit

Industrial Arts:

Agriculture a	1 Unit
Woodwork a	$\frac{1}{2}$ to 1 Unit
Woodwork b	$\frac{1}{2}$ to 1 Unit
Woodwork c	$\frac{1}{2}$ to 1 Unit
Woodwork d	$\frac{1}{2}$ to 1 Unit
Auto Mechanics a	1 Unit
Auto Mechanics b	1 Unit
Drafting a	$\frac{1}{2}$ Unit
Drafting b	$\frac{1}{2}$ Unit
Drafting c	$\frac{1}{2}$ Unit
Drafting d	$\frac{1}{2}$ Unit
Domestic Art a (Plain Sewing).....	$\frac{1}{2}$ Unit
Domestic Art b (Dressmaking).....	$\frac{1}{2}$ Unit
Domestic Art c (Millinery and Textiles).....	$\frac{1}{2}$ Unit
Domestic Science a (Foods and Cookery).....	$\frac{1}{2}$ Unit
Domestic Science b (Advanced).....	1 Unit

Music:

Vocal a	$\frac{1}{2}$ Unit
Vocal b	$\frac{1}{2}$ Unit
Band	$\frac{1}{2}$ Unit
Orchestra	$\frac{1}{2}$ Unit
Private Instrumental a	$\frac{1}{2}$ Unit
Private Instrumental b	$\frac{1}{2}$ Unit
Private Instrumental c	$\frac{1}{2}$ Unit
Private Instrumental d	$\frac{1}{2}$ Unit

Art:

Drawing a	$\frac{1}{2}$ Unit
Studio Work	

Business:

Commercial Arithmetic	1 Unit
Bookkeeping a	1 Unit
Bookkeeping b	1 Unit
Shorthand a	1 Unit
Shorthand b	1 Unit
Typewriting a	$\frac{1}{2}$ Unit
Typewriting b	$\frac{1}{2}$ Unit

ELEMENTARY TRAINING SCHOOL

As at present organized this school includes grades one to eight. In the seventh and eighth grades, however, the work will be so arranged that the proper adjustment to the junior high school ideals will be made. All of the grades are taught by expert teachers and the pupils are assured an excellent course.

GRADUATES 1921-22

HONORARY

Talmage, James Edward	Doctor of Laws
McKay, David Oman	Master of Arts

COLLEGE OF ARTS AND SCIENCES

BACHELOR OF ARTS

Finley, Minnie	Springville
Hillman, Eugene	Pleasant Grove
Jones, LaReal	Provo
Loynd, Gladys	Springville
Mecham, Everett	Paris, Idaho
Miller, Vernessa	St. Anthony, Idaho
Olpin, Elva Chipman	American Fork
Swenson, Carl D.	Provo
Woolley, Mary	Ogden

BACHELOR OF SCIENCE

Beck, Earl A.	Spanish Fork
Brockbank, Wallace	Spanish Fork
Bond, Arthur	Heber
Davis, Roscoe E.	Spanish Fork
Edwards, Bernell J.	Charleston
Jacobson, Rufus I.	Provo
John, Lorenda	Provo
Noble, Hazel Nora	Alpine, Arizona
Rogers, David W.	St. John, Arizona
Wakefield, John F. Jr.,	Provo
Weight, Kenneth	Springville

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

BACHELOR OF SCIENCE

Harris, Franklin H.	Provo
Thomas, Hyrum C.	Spanish Fork

COLLEGE OF EDUCATION

BACHELOR OF ARTS

Eggertsen, Thelma	Provo
Huish, LaVieve	Provo
Jensen, Peter D.	Ephraim
Scorup, Edna	Provo
Whiting, Margaret	Mapleton

BACHELOR OF SCIENCE

Baird, Edwin	Provo
Hansen, LaVerne	Mapleton
Jarvis, Joseph S.	St. John, Arizona
Markham, Ora	Spanish Fork
Williams, Lucile	Provo

NORMAL DIPLOMA

Ash, Cecil L.	Pleasant Grove
Berry, Ruth	Provo R.D.
Coltrin, Rebecca	Spanish Fork
Farrer, Edith	Provo
Glazier, Lyle	Provo
McConkie, John H.	Vernal
Miner, Verda	Fairview
Newell, Lela	Mona
Roylance, Elda	Springville
Thomas, Myra	Lehi
Walker, Margaret	Pleasant Grove
Whitaker, Susa P.	Provo
Woolley, Iona	Vernal

ARTS SUPERVISION DIPLOMA

Anderson, Emily	Pleasant Grove
Walker, Margaret	Pleasant Grove
Woolley, Iona	Vernal

ENROLLMENT OF STUDENTS

1921-1922

In the following list "a" stands for arts and science; "e" for education; "c" for commerce; "ss" for summer school; "G" for Graduate; "S" for Senior; "J" for Junior; "So" for Sophomore; "F" for Freshman; "U" for Unclassified; "Fed" for Federal; "Sec" for Secondary; "Ex" for Extension.

Adams, Harlan M., a-F.....	Provo
Adamson, Lloyd B ss.....	Pleasant Grove
Adamson, Kent Sec-2.....	Pleasant Grove
Adamson, Paul c-U.....	Pleasant Grove
Aird, Virginia ss.....	Provo
Allen, Cora Sec-3.....	Charleston
Allen, Mark Sec-2.....	Provo
Allen, Norma Sec-2.....	Provo
Allen, Robert Sec-1.....	Provo
Allred, Clement Sec-1.....	Vernon
Allred, Ratcliff e-F.....	Provo
Allred, Clemont Sec-1.....	Provo
Allred, W. Lyle ss.....	Logan
Allen, Earl W. Ex.....	Independence, Mo.
Allen, W. Eugene c-F.....	Provo
Allen, Lucille e-F.....	Charleston
Allen, Lester W., a-U.....	Provo
Allen, Mrs. Eva Knight a-J.....	Provo
Alleman, Fred B. c-F.....	Springville
Alleman, Julia a-So.....	Springville
Andelin, Delice Sec-4.....	Provo
Andelin, L'Etrenne Sec-4.....	Springville
Anderberg, Mrs. Reed Ex.....	Springville
Anderson, Alma R. Ex.....	Richfield
Anderson, Alpha Sp-V.....	Richfield
Anderson, Andrew B. ss.....	Lehi
Anderson, Archibald H. ss.....	Mt. Pleasant
Anderson, A. W. Ex.....	Mt. Pleasant

Anderson, Clair c-So	Manti
Anderson, Emily a-So	Pleasant Grove
Anderson, Ethlyn Sp-V	Oak City
Anderson, Ezra Sec-3	Provo
Anderson, Jennie c-F	Provo
Anderson, Marvin e-F	Mt. Pleasant
Anderson, Joseph A. ss	Salina
Anderson, Mary M. A-So	Lehi
Anderson, Mabel ss	Vernal
Anderson, Martha ss	Tooele
Anderson, Owen B. ss	Pleasant Grove
Anderson, Myrtle e-F	Pleasant Grove
Anderson, Robert a-U	Provo
Anderson, Victor C. ss	Castle Dale
Aydelottr, Hazel ss	American Fork
Ashby, Ruth a-F	American Fork
Ashworth, Victor M., A-So	Provo
Atkin, W. Tennyson e-F	St. George
Austin, Twayne c-F	Liberty, Idaho
Baer, Vernon ss	Providence
Bagley, Ellis L. e-F	Koosharem
Bailey, Esther Faust Ex.	Long Beach, Cal.
Bailey, Gussie e-F	Springville
Bailey, Lottie Sp-V	Monticello
Bailey, Mrs. O. W. Ex.	Provo
Bailey, Wilford Ex.	Nephi
Baird, Edwin e-S-ss	Provo
Baird, Ruby e-F	Provo
Baker, Lois e-F	Provo
Ballard, J. W. Ex.	Foxworth, Miss.
Ballif, Algie E. ss	Provo
Bandle, Norma Sec-4	Provo
Barton, G. Byron Sec-3	Provo
Barton, Ruth Sec-2	Provo
Barney, Donald ss	Payson
Bartlett, Wm. ss	Blackfoot, Idaho
Bassett, Catherine S. a-U	Provo
Bate, Birdie c-J	American Fork
Bayles, Clark L. Sec-4	Blanding
Bayles, Velyn a-U	Blanding

Bean, Marcus H. Sec-4	Provo
Bean, Charles L. c-Fed	Provo
Bean, Evelyn e-J	Provo
Beck, Earl A. ss-S	Spanish Fork
Beck, Francis Sp-V	Spanish Fork
Beck, Pearl e-F	Provo
Beckstrand, John M. c-So	Meadow
Beckstrand, Merle e-F	Meadow
Beckstrom, Wm. C. ss	Spanish Fork
Bee, Lucy c-U	Provo
Bell, H. H. Ex	Glenwood
Bennett, Clarence Sec-1	Glenwood
Bennett, Erma Sec-2	Glenwood
Bennett, Kathryn a-U	Shelley, Idaho
Bennett, Carl a-F	American Fork
Bentley, Harold W. a-J	Colonia Juarez, Mex.
Bentley, Viviano W. e-So	Colonia Juarez, Mex.
Bentley, Valentine I. a-F	Colonia Juarez, Mex.
Berge, John Sec-3	Spanish Fork
Berry, Ruth e-So	Provo, R. D.
Betts, Lucille ss	Payson
Bezzant, Rose e-F	Pleasant Grove
Bickmore, Rulon S. Ex	Fargo, No. Dak.
Biddulph, Rulon a-U	Provo
Billings, Elva ss	Duchesne
Billings, Elton Sec-1	Duchesne
Billings, Fern Sec-2	Provo
Billings, Ross Sec-3	Provo
Billings, Lavon a-J	Duchesne
Bingham, Emily Sec-1	Provo
Bingham, Margaret P. Ex	Ogden
Binham, Oscar A. Ex	Independence, Mo.
Bingham, Virginia Sec-1	Provo
Bird, LaMar a-So	Provo
Bird, Nancy e-F	Richfield
Bird, Vaughn a-U	Provo
Bjerregaard, Oscar ss	Provo
Bjerregaard, Mrs. O. Ex	Provo
Bjerregaard, Ray ss	Ephraim
Black, Stanford Sec-1	Provo

Bloomfield, Fern Sec-3.....	Toadlena, N. Mex.
Blumenthal, Rhea Sec-3.....	Provo
Blackborn, William Ex.....	Lovell, Wyo.
Blake, Alta ss.....	Hinckley
Blanthorn, George A. Ex.....	Grouse Creek
Blaylock, John Q. ss.....	Ogden
Blood, H. Loran Ex.....	Independence, Mo.
Bogason, Gier Ex.....	Wynyard, Sask. Can.
Bonnett, Aileen Sec-2.....	Provo
Bonnett, Orvil a-U.....	Provo
Boley, Myron a-So.....	American Fork
Bollschweiler, Arnold F. Ex.....	Independence, Mo.
Bond, Arthur a-S.....6.....	Heber
Bond, LaVon e-F.....	Heber
Booth, Edith Y. e-U.....	Provo
Booth, Editha Sp-V.....	Provo
Booth, J. Wilford ss.....	Provo
Booth, Wayne C. s-F.....	American Fork
Booth, Lorna ss.....	Provo, R. D.
Booth, Leona Sec-2.....	Provo
Boss, Clara e-F.....	Midway
Bowen, Albert a-F.....	Manti
Bowman, Bernardo a-F.....	Kanab
Bowman, Maybeth a-So.....	Kanab
Boyle, Clarence S. e-So.....	Provo
Boyle, Elfie B. ss.....	Provo
Boyle, Melva e-F.....	Provo
Boyle, Wm. H. G-ss.....	Provo
Boyer, Della e-U.....	Springville
Boyer, Mildred ss.....	Springville
Boyack, Archie R. c-J.....	Spanish Fork
Boyack, Wanda a-J.....	Delta
Box, Wm. A. Sec-Fed.....	Payson
Bown, Newell Sec-1.....	Provo
Bown, Vera Sec-4.....	Gunnison
Bramwell, Clyde e-F.....	American Fork
Bramwell, Ernest ss.....	American Fork
Bradford, Erma ss.....	Spanish Fork
Brasher, Elfie ss.....	Huntington
Bright, Hazen W. Ex.....	Wenatchie, Wash

Brimhall, George M. Sec-3.....	Provo
Brimhall, Glenn Ex.....	Portland, Ore.
Brimhall, Golden Eec-1.....	Provo
Brimhall, Gladys Sp-V.....	Provo
Brimhall, Logan e-F.....	Provo
Brimhall, Rulon W. a-J.....	Mesa, Arizona
Bhimley, J. Clyde Ex.....	Independence, Mo.
Bromley, LaVonne e-So.....	American Fork
Brown, Clarence Wm. Ex.....	Atlanta, Ga.
Brown, Ella Sec-4.....	Provo
Browning, Roland c-U.....	Ogden
Brunner, Alice e-F.....	Provo
Bryner, Hardison P. Ex.....	Chicago
Buckwalter, Mildred a-J.....	American Fork
Buckley, Amelia Sec-3-ss.....	Provo
Buckley, Ruth c-F.....	Provo
Budge, Wilford W. Ex.....	Fruita, Colo.
Buell, Lois e-F.....	Provo
Bullock, LaPreal e-F.....	Provo
Bullock, Ralph a-J.....	Provo
Bunnell, Merrill J. c-F.....	Provo
Burch, Mary Sec-1.....	Provo
Burmester, Martha Ex.....	Atlanta, Ga.
Burr, Lila C. Ex.....	Provo
Burr, Myrtice a-F.....	Provo
Buss, Fred E. a-G.....	Provo
Buss, Walter Sec-2.....	Provo
Bushman, Curtis J. a-F.....	Snowflake, Ariz.
Bushman, LaRelle a-F.....	Provo
Butt, Alma Sp-V.....	Dove Creek, Colo.
Butt, Lila Sp-V.....	Bluff
Butters, Iva M. Ex.....	Sedalia, Mo.
Buttle, Leland Sec-3.....	Provo
Buttle, Wm. Sp-V.....	Provo
Calder, J. Hamilton c-F.....	Vernal
Caldwell, Amasa C. e-F.....	Vernal
Campbell, Leland c-U.....	Provo
Candland, Harold Sec-3.....	Provo
Candland, Helen a-So.....	Provo
Candland, Wendell Sec-1.....	Provo

Candland, Lydia H. a-U	Provo
Cannon, Clawson Y. ss	Provo
Cannon, Winifred a-U	Provo
Cardall, Claud a-F	Provo
Carling, Lora e-F	Fillmore
Carroll, Elsie C. ss	Provo
Carlile, Fern a-U	Phoenix, Ariz.
Carlisle Vera Sec-2	Provo
Carroll, Helen Sec-1	Provo
Carroll, Maurine Sec-3	Provo
Carson, Della e-F	Lehi
Carter, J. Norman a-F	Provo
Carter, Leland Sec-3	Provo
Cartwright, Susie ss	Beaver
Chamberlain, Royal a-F	Kanab
Chapman, Nellie e-F	Heber
Cheney, Mary a-U-ss	Lethbridge, Can.
Cheever, Tirzah a-U	Provo
Childs, Chauncy H. ss	Provo
Child, Glen C. Ex.	Independence, Mo.
Childs, Myrtle e-F-ss	Springville
Chipman, Dorothy e-J	American Fork
Chipman, Elva a-S	American Fork
Chipman, Leah a-So	American Fork
Chipman, Ruth a-F	American Fork
Christensen, Angus a-F	Salem
Christensen, Carl J. a-J	Provo
Christensen, Duena	Tacoma, Wash.
Christensen, Edith ss	Provo
Christensen, Elaine a-So	Manti
Christensen, Erval a-J	Provo, R. D.
Christensen, Harold a-F	Price
Christensen, Joseph H. Ex.	Nephi
Christensen, Lilace ss	Koosharon
Christensen, Lucile Dean a-J	Salt Lake City
Christensen, Melvin E.	Denver, Colo.
Christensen, Sadie C. Ex.	Richfield
Christensen, Mark Sec-3	Salem
Christensen, Nephi a-F	Provo
Christensen, Oswald ss	Rexburg, Idaho

Christensen, Sheldon Sec-4	Provo
Christensen, Virginia a-So	Manti
Christensen, Wendell Sec-4	Provo
Christian, Vie ss	Beaver
Christian, Rufus, Ex.	Forest, Ohio
Church, Wells Sec-2	Provo
Christensen, Ralph Sec-2	Provo
Clark, Bryant R. a-F	Georgetown, Idaho
Clark, DaCosta Sec-1	Provo
Clark, Edward a-F	Spanish Fork
Clark, Lizzie ss	Panguitch
Clark, Loreta Sp-V	Provo
Clark, Marvel a-F	Provo
Clark, Melba e-F	Pleasant Grove
Clark, G. Rulon G	Provo
Clark, Nellie a-So	Farmington
Clark, R. Elwin Sp-V	Farmington
Clark, Arvilla Sec-2	Provo
Clark, Rhoda e-So	Georgetown, Idaho
Clayson, Mrs. Agnes Ex.	Provo
Clayson, Ann C. ss	Provo
Clayson, Rosalie e-F	American Fork
Clayton, Ernest Sp-V	Provo
Clayton, Miriam e-F	Paris, Idaho
Clegg, Jena V. e-F	Provo, R. D.
Clegg, Joseph H. Sec-3	Provo, R. D.
Cleveland, Ellsworth P. Ex.	Independence, Mo.
Cluff, Emma V. ss	Provo
Cluff, Margaret T. Ex.	Provo
Cluff, Vera Sec-2	Provo
Coder, Leota ss	Idaho Falls, Idaho
Cook, Clifford c-U	Provo
Cook, Stella Ex.	Provo
Coleman, Allie Ex.	Provo
Coleman, Dale a-F	Midway
Coltrin, Rebecca e-So	Spanish Fork
Condie, Melba a-F	Springville
Condie, Marion A. Ex.	Bisbee, Ariz.
Condie, Richard a-So-ss	Springville
Conover, Wilson a-F	Provo

Connell, Wm. ss.....	Meadow
Corbett, Don C. a-U.....	Provo, R. D.
Corbett, Freda ss.....	Kamas
Corbett, George Sec-1.....	Provo, R. D.
Corbett, Pearson H. Sec-3.....	Provo, R. D.
Corbett, Walter Sec-1.....	Provo, R. D.
Corless, Russel Ex.....	Independence, Mo.
Cornaby, Leslie a-So.....	Spanish Fork
Cowan, Fay Sp-V.....	Payson
Cowley, Ellen e-F.....	Castle Gate
Cowley, Ploma Sec-1.....	Castle Gate
Cox, Stanley a-F.....	Fairview
Crane, Olive e-F.....	Riverton
Crandall, Camille a-U.....	Provo
Crandall, Edward T. c-U.....	Springville
Crandall, Fred L. c-So.....	Provo
Crandall, Glen ss.....	Provo
Crandall, J. C. Ex.....	Tabiona
Cravens, Cora a-F.....	Payson
Creer, Clara a-F.....	Spanish Fork
Creer, Ina a-J.....	Spanish Fork
Creer, Leland H. cc.....	Salt Lake City
Criddle, Cynthia Ex.....	Morgan
Crosbie, Elva a-F.....	Provo
Crowther, Earl Sec-3.....	Provo
Cummings, Benjamin F. ss.....	Provo
Cummings, Lettie R. a-U.....	Provo
Curtis, Lillian e-F.....	Payson
Cushing, Alberta ss.....	Santaquin
Cutler, Ethel G.	Provo
Cutler, Guy V. ss.....	Lovell, Wyo.
Cutler, Louis ss.....	Springville
Dalton, Rose Ex.....	Providence, R. I.
Dangerfield, Royden c-F.....	Provo
Dastrup, Ila, a-So-ss.....	Provo
Dastrup, Louise a-So.....	Provo
Dastrup, Noel Ex.....	Atlanta, Ga.
Dastrup, Thelma Sec-2.....	Provo
Davis, Blanche, c-F.....	Provo
Davis, Eva Sec-3.....	Provo

Davis, Dale Sec-1	Provo
Davis, Mary A. ss	Lehi
Davis, Reed Sec-3	Salem
Davis, Roscoe E. a-S	Spanish Fork
Davis, Seth c-So	Salem
Davies, Charles H. a-J	Provo, R. D.
Davies, Fawn Sec-4	Provo, R. D.
Davies, Rita e-F	Provo, R. D.
Day, George N. a-F	Fairview
Day, Nola ss	Fairview
Daybell, Inez Sec-4	Charleston
Dean, Stanley R. c-F	Shelley, Idaho
Decker, Bryant L. a-So	Idaho Falls, Idaho
Dennison, J. Melvin ss	Manti
Dibble, Raymond a-F	Mapleton
Dickson, Delmar a-J	Morgan
Dickson, LaVern e-So	Morgan
Dickerson, Lucile e-F	Pleasant Grove
Dixon, Charles H. Ex	Fargo, N. Dak.
Dixon, Maud a-J	Provo
Dixon, Rhea ss	Provo
Dixon, Rulon a-S	Provo
Dixon, Vernon Sec-3	Provo
Dougall, Hugh a-F	Springville
Douglass, Melba e-F	Ogden
Draper, George H. Ex	Clearfield
Driggs, H. Wayne Ex	Rochester, N. Y.
Duffin, Jess W. Ex	Portland, Ore.
Dunn, Geneve Ex	Provo
Duckening, Josephine Ex	Mt. Pleasant
Duke, Ruby a-F	Heber
Duke, Violet ss	Provo, R. D.
Duke, Thomas A. Ex	Atlanta, Ga.
Dunn, Carol Sec-3	Provo
Dunn, Irene a-U	Provo
Durrant, Donna e-U	Provo
Durrant, Melba Sec-1	Provo
Durrant, Clarence Sec-4	Provo
Dyer, Max Sec-2	Alamosa, Colo.
Dyches, Thomas W. ss	Castle Dale

Eagar, David Ex.....	Mammoth
Eastmond, Margaret H. a-U-ss.....	Provo
Edman, Evelyn Sec-4.....	Castle Gate
Edvalson, Carl Ex.....	Atlanta, Ga.
Edwards, Clarence a-ss-S.....	Provo
Edwards, Bernell J. a-S.....	Charleston
Edwards, Maud e-U.....	Provo
Edwards, Minera a-J__N.....	Provo
Edler, Jennie Sec-1.....	Provo
Egan, Howard Fed-Sp-V.....	Burley, Idaho
Eggertsen, Anna Marie a-So.....	Provo
Eggertsen, Lars E. ss.....	Provo
Eggertsen, Thelma e-S.....	Provo
Eggertsen, Simon P. ss.....	Provo
Ekins, Leland c-U.....	Provo
Ellertson, Clarence a-U.....	Mona
Ellertson, Lila Sec-4.....	Provo
Ellertson, Martha a-U.....	Mona
Elder, Lura ss.....	Provo, R. D.
Ellsworth, Mrs. Genevieve ss-a-U.....	Pleasant Grove
Eldredge, Almira ss.....	Salt Lake City
Empey, Leland Ex.....	Atlanta, Ga.
Ensign, George ss.....	Ogden
Ercanbrack, Sterling M. ss.....	Provo
Erdman, Wm. e-U.....	Springville
Erickson, Jennie e-F.....	Springville
Esplin, Homer a-U.....	Orderville
Evans, Edmund a-So-ss.....	Payson
Evans, Frank Sec-1.....	Castle Gate
Eves, Dora Sec-3.....	Provo
Eyre, Floyd G. e-S.....	Lyman, Wyo.
Eyring, Fern C. a-F-ss.....	Provo
Fagan, Fern e-F.....	Lehi
Farrer, Ramona ss.....	Provo
Farrer, Ruth e-So.....	Provo
Farrer, Mrs. J. T. Ex.....	Provo
Farnsworth, Agnes ss-a-So.....	Rigby, Idaho
Farnsworth, Reed Sec-3.....	Beaver
Farnsworth, Norman Sec-4.....	Beaver
Faulds, W. M. Ex.....	Salt Lake City

Fenton, Estelle ss.....	Pleasant Grove
Fechser, Kenneth Sec-3.....	Provo
Ferguson, Fred c-F.....	Provo
Ferguson, Wallace a-So.....	Spanish Fork
Finley, Minnie a-S.....	Springville
Fish, Silas L. ss.....	Snowflake, Ariz.
Fisher, Bert a-So.....	Meadow
Fisher, J. E. ss.....	Salt Lake City
Fjeldsted, E. Labarth e-F.....	Gunnison
Foote, Hazel Sec-2.....	Glendale
Fowers, Mae a-So.....	Provo, R. D.
Fox, Rulon L. a-U.....	Lehi
Frandsen, Arden ss.....	Redmond
Frandsen, Gertrude e-F.....	Price
Frandsen, Winona e-F.....	Springville
Frost, John a-F.....	Spanish Fork
Fugal, Vida e-F.....	Pleasant Grove
Fuller, Lavonia a-F.....	Silver City
Fullmer, Gladys Sec-2.....	Provo
Fullmer, Greetys Sec-2.....	Provo
Gardeman, E. F. Ex.....	Provo
Gardemann, Earle Ex.....	Newhall, Iowa
Gardner, George ss.....	Logan
Gardner, Howard B. Sec-2.....	Lund, Nev.
Gardner, Marian a-So.....	Afton, Wyo.
Gardner, Laura ss.....	Pine Valley
Gardner, E. Ray ss.....	Salem
Gardner, Reed c-So.....	Provo
Gardner, Robert a-So.....	Spanish Fork
Garlick, Chester Ex.....	Ogden
Gates, Franklin Y.....	Salt Lake City
Gee, Edith Sec-3.....	Provo
Gee, Orville c-F.....	Provo
George, Devere Sp-V.....	Provo
Gerber, Fern Sec-3.....	Provo
Gerber, Hugh Sec-3.....	Provo
Gibbens, A. H. Ex.....	Saginaw, Mich.
Giles, Mabel e-F.....	Heber
Gillespie, Annie L. ss.....	Provo
Gillespie, Mrs. Elizabeth H. a-U.....	Provo

Gilchrist, Olive Y. ss.....	Provo
Gillman, Alta e-F.....	Vernal
Glazier, Lyle e-So-ss.....	Provo
Gleason, Marie e-F.....	Pleasant Grove
Goodman, Ruth ss-F.....	Provo, R. D.
Goldsbrough, Floyd ss.....	Eureka
Goodridge, Wilma Sec-3.....	Provo
Golder, Albert a-U.....	Rexburg, Ida.
Graham, Marian Sec-3.....	Provo
Green, D. B. Ex.....	Atlanta, Ga.
Grant, Rosaline Ex.....	Provo
Greer, Ernest c-So.....	Provo
Greer, Thelma c-So.....	Wallsburg
Grose, Florence e-F.....	Park City
Groesbeck, Earl e-F.....	Springville
Groesbeck, J. Rowe a-J.....	Springville
Groesbeck, W. Burton a-U.....	Springville
Grua, Mae Ex.....	Pleasant Grove
Gurney, Francis J. a-F.....	Lehi
Guyman, Glen G. c-U.....	Provo
Hackett, Margaret e-F.....	Lehi
Hasking, Donald e-F.....	Thornton, Ida.
Hasking, Mrs. Mabel G. a-U.....	Vernal
Hall, Helen Sec-1.....	Provo
Hall, Theron a-F.....	Springville
Hales, Wayne B. ss.....	Rexburg, Ida.
Hales, Leah e-So.....	Spanish Fork
Hales, Samuel e-U.....	Deseret
Hair, Delamar B. a-So.....	Provo
Hair, Verda e-F.....	Vernal
Hammond, Mrs. May ss.....	Moab
Hansen, Devere a-F-ss.....	Provo
Hansen, Eva e-F.....	St. Anthony, Ida.
Hansen, Mrs. Geo. A.....	St. Anthony, Ida.
Hansen, Margaret Sec-1.....	Provo
Hansen, LaVerne a-S.....	Mapleton
Hansen, Ruth Ireta c-F.....	Richfield
Hansen, Ruth Sec-3.....	Provo
Hansen, Zoe Sec-4.....	Provo
Harding, LeRoy a-U.....	Provo

Harding, Paul L. a-F.....	Provo
Harmon, Mrs. Jesse Ex.....	Provo
Harmon, W. Glenn c-So.....	Price
Harper, Florence Ex.....	Pleasant Grove
Harris, Clinton c-Fed.....	Duncan, Ariz.
Harris, Charles O. Sp-V.....	Dewey, Ariz.
Harding, Afton Sec-4.....	Provo
Harding, Marion Sec-2.....	Provo
Harrington, LaVon Sec-4.....	American Fork
Harrison, Louisa B. Sp-V.....	Knightville
Harris, Franklin H. c-S.....	Provo
Harris, George a-F.....	Provo, R. D.
Harris, Hyrum S. ss.....	Provo, R. D.
Harris, Mary e-U.....	Provo
Harris, Reed H. a-J.....	Driggs, Ida.
Harris, Richard a-F.....	Provo
Harris, Velma ss.....	Payson
Harrison, Hannah ss.....	Vernal
Harrison, J. Wm. a-J.....	Knightsville
Harrison, Pearl ss.....	La Point
Harrison, Walter ss.....	Knightsville
Harter, E. Hyrum a-J.....	Heber
Harvey, J. E. Ex.....	Atlanta, Ga.
Harward, Harold a-F.....	Springville
Harward, Paul E. c-F.....	Springville
Hasler, Ada B. Ex.....	Provo
Hasler, Thalman Sec-3.....	Provo
Harch, Victor a-U.....	Provo
Hatch, Mrs. Janet Ex.....	Provo
Hatton, Beulah Sec-3.....	Provo
Hawkins, Ray c-F.....	Benjamin
Haws, Sterling, e-F.....	Vernal
Hayes, Alton J. Sec-3.....	Provo
Hayes, Emmett R. a-F.....	Pleasant Grove
Hayes, Mrs. Isaac Ex.....	Provo
Hayes, Lottie H. G.....	Provo
Heelis, Winnie ss.....	Santaquin
Healey, Alloween ss.....	Alpine
Hedquist, Edith a-F.....	Provo
Henry, Albert K. c-U.....	Provo

Henderson, Mrs. Ellen C. G-ss.....	Provo
Henderson, Myrtle E. a-ss-F.....	Clifton, Ida.
Hendrickson, Anna Ex.....	Chihuahua, Mex.
Hibbert, Jennie a-J.....	Mesa, Ariz.
Hickman, James J. ss.....	Provo
Hillman, Eugene a-S.....	Pleasant Grove
Millman, Grace e-F.....	Pleasant Grove
Hill, Rosa D. ss.....	American Fork
Hinckley, Caroline e-F.....	Provo
Hinckley, John Sec-3.....	Ogden
Hinckley, George a-So.....	Provo
Hinckley, Vera a-So.....	Ogden
Hinckley, R. H. Ex.....	Provo
Hoddap, Minnie I. ss.....	Salem
Hogan, Gun C. Ex.....	Denver, Colo.
Holdaway, Lyman Sp-V.....	Provo
Holaway, Ellis Sec13.....	Provo, R. D.
Holbrook, Raymond c-F.....	Provo
Holbrook, Jennie Sec-1.....	Provo
Holdaway, Edna Ex.....	Provo
Holdaway, Orin a-So.....	Pleasant Grove
Holmes, LaMar e-F.....	Salem
Hood, James Ex.....	Roosevelt
Hoover, LaMar e-F.....	Provo
Hodson, Ethelyn c-F.....	Provo
Holt, Reed c-ss-S.....	Provo
Holt, Afton Sec-3.....	Provo
Holt, Wm. D. ss.....	Spanish Fork
Hoover, June Sec-1.....	Provo
Horsfall, I. Owen ss.....	Salt Lake City
Howell, Verna e-F.....	Lehi
Huber, Martin e-F.....	Midway
Hubbard, A. Glen a-So.....	Willard
Hughes, Regina Sec-4.....	Spanish Fork
Hughes, Russell Sec-4.....	Provo
Huish, Alberta a-So.....	Provo
Huish, LaVieve ss-e-S.....	Provo
Huish, Ione a-So.....	Provo
Huish, Nina Sec-4.....	Provo
Humphries, Owen e-U.....	Pleasant Grove

Humphries, Lavon Ex.....	Bisbee, Ariz.
Hundley, Elijah Fed-Sp-V.....	Provo
Hurst, Vera e-F.....	Payson
Hurst, Viola Sp-V.....	Provo
Hutchings, Albert S. a-J.....	Springville
Hyde, Barney H. e-U.....	Provo
Hyde, Melba Sec-2.....	Provo
Hygran, Alonzo Ex.....	Nephi
Hygren, Maurse Ex.....	Nephi
Ingram, Ruth Sec-3.....	Provo
Ivie, Leon a-So.....	Salina
Jacobsen, Ernest A. ss.....	Vernal
Jacobsen, Rufus I. ss-E-S.....	Provo
Jacklin, Ellen ss.....	American Fork
Jackson, Amy a-F.....	Provo
Jackson, Elwood a-F.....	Provo
Jackson, Mrs. Elvon E.....	Provo
Jackson, Mrs. John Ex.....	Provo
Jackson, Orin Sec-2.....	Provo
Jacklin, Matilda ss-e-F.....	American Fork
Jacobs, Vilate a-U.....	Ogden
Jacob, Maude Beeley G.....	Provo
Jacobson, Louise a-F.....	Mt. Pleasant
Jacobson, Erma e-F.....	Provo
Jameson, Ellen a-U.....	Spanish Fork
James, Elsie Ex.....	Provo
Jarman, Erma a-So.....	Pleasant Grove
Jarvis, Joseph S. c-S.....	St. John, Ariz.
Jensen, Annie Ex.....	Cowley, Wyo.
Jensen, Clara e-F.....	Mapleton
Jensen, Clarence a-F.....	Freedom
Jensen, Ella Ex.....	Glenwood
Jensen, Ether Sp-V.....	Mendon
Jensen, Fay Sec-3.....	Mapleton
Jensen, Fernando Sec-1.....	Lyman, Wyo.
Jensen, Elliott E. e-F.....	Manti
Jensen, Mrs. Florence H. a-U.....	Provo
Jensen, Julia B. G.....	Provo
Jensen, Myrtle a-So.....	Idaho Falls, Ida.
Jensen, Seymour e-F.....	Mt. Pleasant

Jepperson, Florence ss-a-U	Provo
Jenkins, H. E. ss	Manti
Jensen, Mrs. J. M. Ex.	Provo
Jenson, Joseph Y. ss	Salt Lake City
Jensen, Lillian Ex.	Provo
Jensen, Peter J. ss	Salt Lake City
Jensen, Peter D. ss-U	Ephraim
Jensen, Edgar M. ss-G	St. George
Johansen, J. E. Ex.	Mt. Pleasant
John, Lorenda ss-eS	Provo
Johnson, Arvon Sec-3	Provo
Johnson, Blanche e-U	Pleasant Grove
Johnson, Celestia a-F	Provo
Johnson, Charles L. a-F	Vernal
Johnson, Clair a-U	Springville
Johnson, Clara e-F	Redmon
Johnson, Fern a-F	Provo
Johnson, G. M. Ex.	Atlanta, Ga.
Johnson, Julia e-F	Provo
Johnson, May e-F	Provo
Johnson Rhoda Sec-2	Provo
Johnson, Violet a-J	Provo
Johnson, Mrs. Wayne a-U	Springville
Johnson, Zina ss	Springville
Johnson, Wanda ss	Scipio
Johnson, May ss	Huntington
Jolley, Ethel a-F	Provo
Jolley, Hugh c-U	Provo
Jones, Clarissa a-F	Price
Jones, Darrell Sec-3	Provo
Jones, Etta c-F	Provo
Jones, Eliza Ex.	Mt. Pleasant
Jones, George Ex.	Richfield
Jones, Harlow a-F	Provo
Jones, Jennie e-F	Heber
Jones, LaReal ss-S	Provo
Jones, Orpha Sec-4	Provo
Jones, Thomas a-U	Provo
Jones, Wm. A. a-F	Spanish Fork
Jones, Verna Sec-4	Provo

Jordan, Iona K. a-U.....	Provo
Jorgensen, Drew a-U.....	American Fork
Jorgensen, Enoch ss.....	Sandy
Kallgren, Oscar A. Sec-Fed.....	Sandpoint, Idaho
Kartchner, James Ex.....	San Francisco, Cal.
Kartchner, Wayne a-U.....	Provo, R. D.
Katsimales, Deoricas Sp-V.....	Provo, R. D.
Kay, Eva E. a-U.....	Provo
Kay, Rheta e-F.....	Provo
Keeler, Daniel M. a-U.....	Provo
Keeler, Eva J. e-S.....	Provo
Keeler, Paul Sec-2.....	Provo
Keeler, Ralph B. a-So.....	Provo
Keller, Calvin ss.....	Manti
Kerr, Hal a-F.....	Provo
Kerr, J. Ralph c-F.....	Provo
Kerr, Mrs. H. S. Ex.....	Provo
Kerr, Kenneth a-U.....	Provo
Kerby, Erwin Sec-1.....	Provo
Kerby, Ione Sec-1.....	Provo
Keyte, Clyde Ex.....	Lynn, Mass.
Killpack, Gladys Sec-3.....	La Grande, Oregon
Killpack, Leland a-F.....	La Grande, Oregon
Killpack, Lovell A. a-F.....	La Grande, Oregon
Kimball, James.....	Atlanta, Ga.
Kindred, Emeline ss.....	Springville
Kingston, Charles Ex.....	Ogden
Kirkham, Alice ss.....	Lehi
Kirkham, Alden Sec-1.....	Lehi
Kirkham, Elbert Sec-1.....	Lehi
Kirkham, Mrs. J. M. a-U.....	Lehi
Kirkham, Raymond c-F.....	Lehi
Klingler, Geo. Ex.....	Bonne Ture, Mo.
Knight, Jennie B. a-U.....	Provo
Knudsen, Harold R. a-So.....	Provo
Knudsen, Jarl H. a-U.....	Lehi
Knudsen, Oral Sec-4.....	Provo
Knudsen, Serelda Sp-V.....	Provo
Lambert, Richard F. a-So-Fed.....	Kams
Larsen, Beryl e-F.....	Fairview

Larsen, Ardash ss.....	Fairview
Larsen, Dean M. c-F.....	Monrie
Larsen, Dean M. c-F.....	Manti
Larsen, Emma ss.....	Provo
Larsen, Everett a-U.....	Moroni
Larsen, Mrs. Geneva D. ss-e-U.....	Provo
Larsen, Grace Ex.....	Wichita, Kansas
Larsen, Helen ss.....	Mt. Pleasant
Larsen, Spencer a-U.....	Spanish Fork
Langford, Clarence Sp-V.....	Nampa, Ida.
Leon, Christine a-U.....	Provo
Law, Joseph B. Sec-2.....	Mapleton
Latimer, Andrew H. Ex.....	Nephi
Lea, James Sp-V.....	Provo
Leavitt, Charity ss.....	Bunkerville, Nev.
Leavitt, Lea ss.....	Bunkerville, Nex.
Lee, Florence Ex.....	Brooklyn, N. Y.
Leonard, Verda ss.....	Huntington
Lewis, Arthur a-J.....	Spanish Fork
Lewis, Geo. K. Ex.....	Butte, Mont.
Lewis, Edward Ex.....	Atlanta, Ga.
Lewis, John S. a-U.....	Payson
Lewis, Natella e-F.....	Provo
Lewis, Robert a-F.....	Spanish Fork
Lichfield, R. Clarence.....	Provo
Lichfield, Vinna H. a-U.....	Provo
Liechty, Ida Sec-2.....	Provo
Liechty, Vivian Sec-2.....	Provo
Linford, Phoebe Sec-2.....	Provo
Lindsay, Della e-F.....	Heber
Lindsay, Lisle ss-G.....	Provo
Lindsay, Mary e-U.....	Heber
Livingston, Afton M. a-F.....	Manti
Losee, Mrs. W. E. ss.....	Provo, R. D.
Love, Mrs. J. A. Ex.....	Drycid, Wash.
Loveless, James Sec-3.....	Provo
Lovell, Vera Sec-3.....	Oak City
Lott, Golda a-U.....	Provo
Loynd, Gladys a-S.....	Springville
Ludlow, Alice a-J.....	Spanish Fork

Ludlow, Thelma e-F.....	Spanish Fork
Lundell, Harold a-J.....	Benjamin
Lundell, Parley, a-U.....	Benjamin
Lund, Lillian e-F.....	Nephi
Lyman, Oscar Sec-4.....	Tridell
Lythgoe, Belett Ex.....	Colorado Spring, Colo.
McAdam, Vera a-U.....	Provo
McAllister, Brigham W. a-U.....	Provo
McAllister, W. W. ss.....	Provo
McAuley, Reed a-F.....	Heber
McCoard, Arthur a-F.....	Provo
McCoard, Charles a-So.....	Provo
McCoard, Della B. e-F.....	Provo
McConkie, John H. e-So.....	Verna
McDonald, Mrs. J. H. Ex.....	Provo
McElrath, Alma a-So.....	Mesa, Ariz.
McElrath, Frank Sec-2.....	Mesa, Ariz.
McEwan, Florence Sec-2.....	Provo
McEwan, Myrtle Ex.....	Provo
McKee, Ella e-F.....	Vernal
McKell, Lea ss.....	Spanish Fork
McLaughlin, Lola Sec-3.....	Pocatello, Ida.
Mace, Ulysses G. a-J.....	Santaquin
Madsen, Franklin ss-a-So.....	Provo
Madsen, Evan A. e-F.....	Mt. Pleasant
Madsen, Richard Ex.....	Elva, Wis.
Madsen, Royal D. ss.....	Gunnison
Maeser, Camilla c-So.....	Provo
Maeser, Evelyn Sec-4.....	Provo
Maeser, Meith a-F.....	Provo
Mace, LaVon Sec-2.....	Santaquin
Magleby, Rulon T. a-J.....	Rexburg, Ida.
Magley, Zella F. G.....	Rexburg, Ida.
Mahoney, Mabel e-F.....	Heber
Makin, Mildred e-F.....	Pleasant Grove
Mangleson, Le Grande Ex.....	Marion, Ind.
Mangum, Gloria Sec-2.....	Provo
Manwaring, Earl c-F.....	Provo
Manwaring, Hyrum G.....	Rexburg, Ida.
Manson, Hunter c-F.....	Provo

Manziona, J. A. Ex.....	Baltimore, Md.
Markham, Aldus c-So.....	Provo
Markham, Fred L. e-J.....	Provo
Markham, Mrs. Mary L. a-U.....	Provo
Markham, Ora e-S.....	Spanish Fork
Marley, Etto a-F.....	McCammon, Ida.
Martin, Mrs. T. E. a-U.....	Provo
Martell, Wells c-F.....	Spanish Fork
Matheson, Ella Ex.....	Cedar City
Mathews, Elmer a-F.....	Somerset, Colo.
Mathews, Elmer Ex.....	Denver, Colo.
Maudsley, Lela ss-a-So.....	American Fork
Maw, Carlyle a-F.....	Provo
Maw, Florence Sec-2.....	Provo
Maw, Marylene a-J.....	Provo
Maw, Margaret P. a-U.....	Provo
Mayhew, Burdette Sec-3.....	Duchesne
Mayhew, Wayne E. c-So.....	Duchesne
Mecham, Lucian, Jr., ss.....	Colonia Juarez, Mex.
Mecham, Everett H. a-S.....	Paris, Ida.
Mecham, Lillie D. a-F.....	Provo
Meldrum, Grace Sec-3.....	Provo
Meldrum, Fred Sec-4.....	Provo
Meldrum, Jesse Sec-3.....	Provo
Meldrum, Kenneth Sec-1.....	Provo
Mendenhall, V. Cornell a-F.....	Springville
Mendenhall, Wilford a-F.....	Springville
Merrill, Harrison R. G.	Provo
Merrill, Lyman a-So.....	Provo
Merrill, Vernon Sec-2.....	Provo
Meredith, Leo e-So.....	American Fork
Meservy, Helen ss.....	Provo
Messick, Margaret ss.....	Idaho Falls, Ida.
Messick, Francis e-So.....	Idaho Falls, Ida.
Metcalf, Morris S. e-So.....	Springville
Michie, Lambert Sec-3.....	Tabiona
Millbourne, Olive a-U.....	Price
Miller, Carl O. c-F.....	Lehi
Miller, Cleo ss-e-F.....	American Fork
Miller, Dellas K. Sec-3.....	Provo

Miller, Florence Sec-2.....	Provo
Miller, Ilah Jane Sec-3.....	Provo
Miller, Karl A. Sec-3.....	Provo
Miller, Lecta e-F.....	Pleasant Grove
Miller, Lynn c-F.....	Murray
Miller, Sadie e-F.....	American Fork
Miller, Sarah Ex.....	Venice
Millett, Carrie ss-e-U.....	Pleasant Grove
Miner, Artie U. e-F.....	Fairview
Miner, Ernest L. ss.....	Fairview
Miner, Glen B. Ex.....	Toluca, Mex.
Miner, Lelo e-R.....	Provo
Miner, Milo e-U.....	Fairview
Miner, Verda e-So.....	Fairview
Mitchell, David L. ss.....	Payson
Mix, Christa c-F.....	Provo
Moon, Robert Sec-1.....	Kamas
Moore, Huish a-U.....	Payson
Moore, Oro H. a-So.....	Payson
Moore, Samuel D. Jr., ss-G.....	Pleasant Grove
Moore, Sterling Sec-3.....	Provo
Moffitt, Clifton Sec-4.....	Bonita
Monson, Byron Sp-V.....	Pleasant Grove
Morgan, Burt Fed-c-U.....	Provo
Morley, Alonzo a-F.....	Moroni
Morrell, W. Ernest ss.....	Moroni
Morgan, Leo ss.....	Payson
Morgan, J. Frank a-F.....	Spanish Fork
Morgan, J. Rulon a-J.....	Spanish Fork
Mortensen, Clair c-U.....	Parowan
Mortimer, George e-So.....	Provo
Moulton, Grace ss.....	Heber
Murdock, Erma Sec-4.....	Heber
Murdock, Paul a-J.....	Provo
Myrup, Lois e-F.....	Gunnison
Murray, George a-U.....	Mapleton
Malder, Claude Ex.....	Atlanta, Ga.
Neddo, Geo. W. Ex.....	Atlanta, Ga.
Nelson, Delia e-F.....	Salem
Nelson, Erwin Ex.....	Toronto, Can.

Nelson, Mrs. Edna ss.....	Provo
Nelson, Eliza C. Ex.....	Provo
Nelson, Kenneth c-J.....	Provo
Nelson, Leo a-F.....	American Fork
Nelson, Lyle a-F.....	Provo
Nelson, Stanley Sec-2.....	Provo
Newell, Florence e-F.....	Provo
Newell, Lela e-So.....	Mona
Newell, Rulona e-U.....	Mona
Newman, Frank Ex.....	Pleasant Grove
Nicholes, Joseph K. ss.....	St. George
Nicholes, Rulon a-So.....	American Fork
Nielsen, Vanza Ex.....	American Fork
Nielsen, Sherman Ex.....	Brooklyn
Nielson, Frank Sec-4.....	American Fork
Nielson, Ina Sec-3.....	Provo, R. D.
Nielson, Ivy a-F.....	Fountain Green
Nielson, Ross a-F.....	American Fork
Nilsson, Ralph F. ss.....	Heber
Nixon, Ezra Sec-2.....	Provo
Nixon, Grace ss.....	Provo
Nixon, Clarence a-F.....	Price
Noble, Hazel Nora ss-a-S.....	Alpine, Ariz.
Noble, LeGrande ss-a.....	Alpine, Ariz.
Norwood, Bessie ss.....	Huntington
Nuttall, Ethel ss.....	Provo, R. D.
Nuttall, James A. a-U.....	Provo
Nuttall, Wm. Reed Sec-2.....	Provo, R. D.
Nuttall, Winnifred ss.....	Idaho Falls, Ida.
Oberhansly, Fern ss.....	Provo
Oberhansly, Madge a-F.....	Clinton
Ogden, S. W. Ex.....	Atlanta, Ga.
Ogden, Owen Ex.....	Wenatchie, Washington
Ohlwiler, Nellie e-F.....	Heber
Oldham, Mrs. Samuel.....	Paradise
Oldroyd, Joseph Sec-3.....	Provo
Oldroyd, Wm. Sec-2.....	Provo
Olpin, A. Ray a-J.....	Pleasant Grove
Oliphant, Elgin a-So.....	Orangeville
Olsen, Alta ss.....	Vernal

Olsen, Alice e-U.....	Vernal
Olsen, Frank c-So.....	Manti
Olsen, Frank Ex.....	Atlanta, Ga.
Olsen, Celia ss.....	Duchesne
Olson, Geo. Ex.....	Fairview
Olsen, Gertrude a-So.....	Provo
Olsen, Harvard Sec-2.....	Provo
Olsen, Griselda e-F.....	Mt. Pleasant
Olsen, Herman a-U.....	Pleasant Grove
Olsen, Roland a-So.....	Provo
Olsen, Victor Ex.....	Atlanta, Ga.
Oliver, Wm. A. ss.....	Provo
Oscarson, John a-S.....	Pleasant Grove
Packard, Fae e-F.....	Springville
Packard, Paul C. c-F.....	Springville
Page, Albert c-So.....	Provo
Page, LaVerne Sec-4.....	Provo
Palfreyman, Jennie a-U.....	Springville
Paradise, J. T. Ex.....	Montreal, Can.
Park, o Geo. Ex.....	Independence, Mo.
Park, Ruby, ss.....	Nephi
Park, Samuel Ex.....	Superior, Wis.
Parker, Donald c-So.....	American Fork
Parker, Ethel e-F.....	American Fork
Parkes, Flora e-F.....	Nephi
Parcell, Lyman Sec-3.....	Provo
Parcell, Lyda Sec-3.....	Provo
Parks, Robert H. ss.....	Provo
Pardoe, Kathryn ss.....	Provo
Parkinson, E. West a-So.....	Rexburg, Ida.
Parsons, Emma e-F.....	Salem
Partridge, E. R. Ex.....	Erie, Pa.
Partridge, Ruth a-So.....	Provo
Partridge, Savalla e-F.....	Fillmore
Partridge, Truman a-F.....	Provo
Paulson, Ford M. a-F.....	Pleasant Grove
Paxman, Barbara Ex.....	Provo
Paxman, Grace Ex.....	Provo
Paxton, Alice Sec-1.....	Kanosh
Paxton, Winford A. e-J.....	Kanosh

Payne, Afton Sec-2.....	Provo
Payne, Albert Ex.....	Safford, Ariz.
Payne, Berthell Sec-2.....	Provo
Payne, Elden Sec-3.....	Provo
Peay, Marian V. e-F.....	Provo
Penrod, Lavar Sec-3.....	Provo
Penrod, Myrle Sec-4.....	Provo
Peacock, Riddell Sec-1.....	Emery
Payne, Lavon Sec-3.....	Provo
Peay, Erva Sec-1.....	Provo
Perkins, Ruth a-So.....	Provo
Perkins, W. Wendell a-J.....	Gunnison
Pernoux, Lillian e-F.....	Lehi
Perry, Elsie e-U.....	Byron, Wyo.
Peterson, Ethel a-F.....	Cowley, Wyo.
Peterson, Florence ss-e-F.....	Provo
Peterson, James a-U.....	Cedar Valley
Peterson, Lillian a-F.....	Cowley, Wyo.
Peterson, L. Elmer a-U.....	Oasis
Peterson, Louis A. Ex.....	Mt. Pleasant
Peterson, Pauline M. Ex.....	Mt. Pleasant
Peterson, Noel Sec-1.....	Kamas
Peterson, Melba Sec-4.....	Kamas
Peterson, Willis L. c-F.....	Pleasant Grove
Phillips, Alene ss.....	Provo
Phillips, Alice e-F.....	Lehi
Phillips, Earl H. Sec-4.....	Provo
Phillips, Etta Sec-3.....	Provo
Phillips, Effie C. e-F.....	Springville
Phillips, Helen e-F.....	Provo
Phillips, Lizzie e-So.....	Springville
Phillips, Ralph Sec-3.....	Springville
Phillips, Pauline ss.....	Provo
Phillips, Ruby a-U.....	Provo
Phillips, Susan Sec-1.....	Provo
Pickett, Ellis J. e-U.....	St. George
Pierce, Alice a-U.....	Gunnison
Pierpont, Margaret a-U.....	Provo
Pierpont, Thomas Sec-3.....	Provo
Pierpont, Vilate a-F.....	Provo

Plummer, Lodema e-F	Heber, R. D.
Porter, Melba a-F	Springville
Potter, Elwin A. Sec-3	Bancroft, Ida.
Potter, Mrs. L. C. Ex.	Provo
Poulson, Amy a-So	Provo, R. D.
Poulson, Rhoda e-F	Provo, R. D.
Poulson, Ezra J. ss	Nephi
Poulton, Eva Sec-4	Provo
Poulton, Louise Ex.	Provo
Powell, Efcy e-F	Vernal
Powelson, Donnel E. a-U-Fed	Provo
Powelson, M. Thomas a-FH	Raymond, Can.
Powelson, Stanford Sec-4	Provo
Pratt, Nora Sec-3	Provo
Price, Chas. W. Ex.	Streator, Ill.
Priday, Florence e-F	American Fork
Pritchett, Beatrice e-U	Fairview
Probst, Reed e-U	Midway
Prows, Eldon Sec-3	Provo
Prows, Elva Ex.	Provo
Pulsipher, Clyde c-U	Provo, R. D.
Pulsipher, Gilbert Sec-2	Provo, R. D.
Pyne, Mark H. Sec-4	Provo
Radnall, Vilace L. c-F	Pleasant Grove
Randall, Annie e-F	Ogden, R. D.
Randall, Lloyd Ex.	Chicago, Ill.
Randell, Olive a-F	Ogden, R. D.
Ranney, Roy Ex.	Pine Bluff, Ark.
Rasband, Annie J. a-D	Heber
Rasband, J. Sylvan c-F	Heber
Ray, Fred a-F	Provo
Redd, Josephine ss	Blanding
Redd, Wayne H. ss	Blanding
Reece, C. D. Ex.	Atlanta, Ga.
Reece, J. B. Ex.	Tlalpan, Mex.
Reickert, Hugo Sp-V	Storrs
Reid, Bryan ss	Orangeville
Reid, Clara e-F	Payson
Reid, Glen a-F	Manti
Reeve, Fenton a-J	Hinckley

Reinsch, A. C. Ex.....	Greenriver, Wyo.
Reynolds, Arch S. a-J-ss.....	Springville
Reynolds, Bess e-F.....	Springville
Reynolds, Fred M. c-F.....	Springville
Rich, Abel S. ss.....	Brigham
Richards, W.. Wl. Ex.....	Paris, Ida.
Richards, Harry S. Ex.....	Magna
Richardson, James Sec-3.....	Provo
Ricks, Kathryn M. ss.....	Ogden
Ricks, Joel E. ss.....	Ogden
Richan, Raymond ss.....	Provo
Riding, Lister Sec-2.....	Provo, R. D.
Riding, Vidella Sec-2N.....	Provo, R. D.
Rigby, Verdell a-F.....	Hinckley
Rigby, Wendell M. e-F.....	Hinckley
Ritchie, Thelma e-F.....	Charleston
Robbins, Archie ss.....	Provo
Robbins, H. M. Ex.....	Chicago, Ill.
Roberts, Bertha a-U.....	Redmesa, Colo.
Roberts, F. W. Ex.....	Altonah
Roberts, Mrs. Zella L. ss.....	Provo
Robison, Joseph S. ss.....	Provo
Robinson, Junius Sec-2.....	Provo
Robinson, Mrs. J. W. Ex.....	Provo
Robinson, Flora e-U.....	Kanab
Robinson, Marie e-F.....	American Fork
Robertson, J. Wesley, ss.....	Lovell, Wyo.
Robertson, Rufus a-F.....	Spanish Fork
Robertson, Russell a-F.....	Spanish Fork
Robinson, L. Ray a-F.....	Tetonia, Ida.
Robinson, Wm. c-F.....	Lehi
Ross, Raymond c-So.....	Provo
Roundy, Clayton a-So.....	Provo
Roundy, Fern e-U.....	Provo
Roundy, G. P. Ex.....	Santa Fe, N. Mex.
Rowlands, Mrs. R. C. ss-a-U.....	Provo
Rowley, Vaneese H. ss-a-U.....	Provo, R. D.
Roylance, Elda e-So.....	Springville
Roylance, Earl Sp-V.....	Springville
Roylance, Helen ss-a-J.....	Springville

Salm, E. D. Ex.....	Portland, Ore.
Sabin, Dewey Ex.....	Atlanta, Ga.
Sanford, Alice e-F.....	Springville
Sauls, Phoebe Sec-3.....	Provo
Scherer, Josephine e-F.....	Provo
Scoresley, C. N. Ex.....	Atlanta, Ga.
Scorup, Etta Sec-3.....	Provo
Scorup, LaVerd a-F.....	Provo
Scorup, Edna e-S.....	Provo
Seegmiller, Frank K. ss.....	Salt Lake City
Searle, Lester W. ss.....	Provo
Scott, Loran Sec-4.....	Provo
Scott, Robert Wm. Sec-1.....	Provo
Seamount, Gladys Sec-4.....	Provo
Selby, Hazel Ex.....	Provo
Sells, Walter A. Ex.....	Nephi
Shelley, Frank G. a-F.....	American Fork
Shepherd, David ss.....	Logan
Sherwood, Joseph M. Ex.....	Denver, Colo.
Shepherd, Laura Ex.....	Tacoma, Wash.
Simmons, D. G. Ex.....	Spanish Fork
Simmons, Enos W. ss-e-S.....	Payson
Simmons, Glenn a-J.....	Payson
Simmons, Lee ss.....	Spanish Fork
Skinner, Esther e-So.....	Thatcher, Ariz.
Slack, Ida Sec-4.....	Provo, R. D.
Slack, Irvin J. c-So.....	Provo, R. D.
Smart, Anna ss.....	Roosevelt
Smart, Muriel a-F.....	Provo
Smart, Orena a-U.....	Provo
Smart, Thomas L. c-U.....	Roosevelt
Smart, Wayne Sec-3.....	Provo
Smart, Henrietta ss.....	Provo
Smith, Ed. O. Ex.....	Rochester, N. Y.
Smith, Mrs. Ella ss.....	Beaver
Smith, Marie e-F.....	Snowflake, Ariz.
Smith, Thos. B. Ex.....	Modesto, Calif.
Smith, Waunetta, Sp-V.....	Provo
Smith, Margaret ss.....	Spanish Fork
Snow, Leroy c-F.....	Provo

Somo, Marian a-U.....	Provo
Sorensen, C. R. Ex.....	Fargo, N. Dak.
Sorenson, Dora e-U.....	Provo
Sorensen, Ed. Ex.....	Taylor, Texas
Southwick, Pearl a-F.....	Lehi
Southworth, Kathryn e-F.....	Springville
Sparks, Sherman Sec-2.....	Provo
Spainhower, Donald Sec-3.....	Payson, R. D.
Speakman, Mrs. Geneva A. ss.....	Provo
Spear, Mrs. O. A. Ex.....	Provo
Sperry, Rosa Sp-V.....	Nephi
Sperry, Willamette Sec-3.....	Provo
Sproul, Elmo C. ss-e-So.....	St. George
Sproul, Leonard M. a-U.....	Washington
Stagg, Aleitha Sec-4.....	Provo
Stagg, Marie ss.....	Provo
Staley, Jesse a-F.....	Provo
Stapley, LaRue Sp-V.....	Delta
Stark, Grant a-U.....	Spanish Fork
Stark, Henry M. a-So.....	Spanish Fork
Starr, Walter B. Jr., a-U.....	Hollywood, Calif.
Stein, Mrs. J. E. Ex.....	Provo
Stevens, Kate Sec-4.....	Burnt Fork, Wyo.
Stevens, Reva ss.....	Provo
Stephens, Howard Sec-4.....	Victor, Ida
Stevenson, Maurine a-U.....	Salt Lake City
Stewart, Halbert Sec-4.....	Provo
Stewart, Kilton R. ss.....	Provo
Stewart, LaVon e-F.....	Provo
Stewart, Reed a-F.....	American Fork
Stewart, Rose Y. Ex.....	Provo
Stoker, Florence e-F.....	Spanish Fork
Storrs, Bernard c-U.....	American Fork
Stott, Karl a-So.....	Meadow
Stout, Wendell H. ss.....	Beaver
Stowell, Mrs. Lucile a-U.....	Provo
Strate, Fred C. ss-e-U.....	Provo
Straw, Mabel a-U.....	Springville
Strong, Eva ss.....	Provo
Strong Luella ss.....	Alpine

Stubbs, Donald c-J.....	Provo
Stubbs, Mabel a-F.....	Provo
Stubbs, Melba Sec-4.....	Provo
Sumner, Elton J. Sec-3.....	Provo
Sumsion, Edna c-F.....	Springville
Sumsion, Orvil D. c-F.....	Springville
Sumsion, J. Bert ss.....	Springville
Sumsion, Spafford a-F.....	Springville
Sutherland, Walter.....	Provo
Sutton, Mrs. Helen Ex.....	Provo
Swapp, Mrs. E. Ex.....	Provo
Sweat, Emeline e-F.....	Heber, R. D.
Swenson, Carl D. a-S.....	Provo
Swenson, Earl c-U.....	Spanish Fork
Swenson, Margaret D. ss-e-U.....	Provo
Swenson, Margaret Sec-3.....	Provo
Swenson, Reid K. a-U.....	Provo
Swenson, Russell a So.....	Pleasant Grove
Swindle, Elva e-F.....	Monroe
Tanner, Irwin Ex.....	Atlanta, Ga.
Tanner, Ray S. e-So.....	Fairview
Talmage, Helen a-F.....	Salt Lake City
Taylor, Alice a-J.....	Provo
Taylor, Amelia R. a-U.....	Provo
Taylor, Edna e-F.....	Farr West
Taylor, Dunn e-F.....	Springville
Taylor, Grace Ex.....	Provo
Taylor, Mrs. G. M. Ex.....	Provo
Taylor, Heber R. c-U.....	Provo
Taylor, Henry c-F.....	Provo
Taylor, Henrietta e-J.....	Provo
Taylor, J. Isaac a-F.....	Spanish Fork
Taylor, Jennie M. a-U.....	Provo
Taylor, Leo Sec-3.....	Provo
Taylor, Lynn Ex.....	Tacoma, Wash.
Taylor, Raymond, Sec-3.....	Provo
Taylor, Theresa e-F.....	Lehi
Taylor, Victor R. Sec-4.....	Provo
Tervort, Edna e-F.....	Payson
Tew, Wm. T. Jr., ss.....	Leslie, Ida.

Thacker, Chloe ss.....	Heber
Thomas, Aletha e-F.....	Spanish Fork
Thomas, David c-U.....	Spanish Fork
Thomas, Frank E. Sec-2.....	Provo
Thomas, Harlan Sp-V.....	Provo
Thomas, Hyrum C. c-S.....	Spanish Fork
Thomas, Myra a-So.....	Lehi
Thomas, Norman Sp-V.....	Provo
Thomas, Ray c-U.....	Spanish Fork
Thomas, Zella Sec-4.....	Provo
Thompson, Ethel ss.....	Richfield
Thompson, Leonard Ex.....	Provo
Thorne, Lavada e-F.....	Springville
Thorne, Lillian e-F.....	Springville
Thorn, Vern a-U.....	Springville
Thorne, Wendell E. a-F.....	Pleasant Grove
Thornley, Mrs. Thos. Ex.....	Provo
Thurman, Niel C. Sec-4.....	Provo
Timothy, Rulon Sec-3.....	Vernal
Tolboe, Vernon a-F.....	Provo
Tolman, O. P. Ex.....	Independence, Mo.
Tucker, Agnes ss.....	Roosevelt
Tucker, Harold F. c-U.....	Provo
Tuttle, Alene ss.....	Spanish Fork
Tuttle, Lucile a-U.....	Manti
Twede, Franklin Sec-3.....	Payson
Utley, Ray ss.....	Sevier
Vance, Cyril a-U.....	Provo
Vance, Elma Sec-1.....	Provo
Vance, J. R. Ex.....	Port Artuhr, Can.
VanLeuven, Ray e-F.....	Springville
VanWagenen, Clyde c-U.....	Provo
VanWagenen, Glen G.....	Provo
Vernon, Stella e-F.....	Vernal
Vickers, Thos. W. Ex.....	Nephi
Wadley, L. J. Ex.....	Independence, Mo.
Wakefield, Emma H. e-So.....	Provo
Wakefield, Homer a-So.....	Provo
Wakefield, John F. Jr., a-So.....	Provo
Wakefield, Lynn Sec-3.....	Provo

Waldron, W. R. Ex.....	Atlanta, Ga.
Walker, Ethel Sec-3.....	Provo
Walker, Lee ss.....	Pleasant Grove
Walker, Margaret e-So.....	Pleasant Grove
Walker, May ss.....	Layton
Walker, Nellie Sec-2.....	Provo
Walker, Rudger H. a-So.....	Rexburg, Ida.
Walker, Ruth ss-e-U.....	Provo
Walker, Ruth V. e-F.....	Pleasant Grove
Walker, Verna a-U.....	Layton
Wanlass, Frank ss-a-So.....	Eureka
Wardell, A. D. Ex.....	Atlanta, Ga.
Warnick, F. Leland c-F.....	Provo
Warnick, Inez Sec-4.....	Provo
Warnick Paul E. Sec-1.....	Provo
Warner, John F. Jr., ss.....	Spanish Fork
Warren, G. S. Ex.....	Atlanta, Ga.
Warner, W. H. Ex.....	Nephi
Watson, Vern ss.....	Charleston
Welker, Roy A. ss.....	Paris, Ida.
Wentz, Lillian Ex.....	Provo
Weeks, Lorin a-F.....	Pleasant Grove
Weight, Claude F. ss.....	Springville
Weight, Kenneth E. a-S-ss.....	Springville
Weight, Willis a-U.....	Springville
Wentz, Leland a-F.....	Provo, R. D.
West, Archie C. c-S.....	Pleasant Grove
West, Eleroy ss.....	Pleasant Grove
West, Myron F. c-So.....	Pleasant Grove
West, Opal e-So.....	Pleasant Grove
West, Reva e-F.....	Pleasant Grove
Whatcott, Devello e-F.....	Kanosh
Wheeler, Marie e-F.....	Springville
Whitaker, Susa P. e-So-ss.....	Provo
White, J. Leon Sec-4.....	Chandler, Ariz.
White, Harold L. Sec-1.....	Chandler, Ariz.
Whitehead, Bertha Ex.....	Provo
Whitehead, Elial Sec-1.....	Provo
Whitehead, LeRoy a-U.....	Provo
Whitehead, Roland a-So.....	Provo

Whitney, Lovell Sp-V.....	Mapleton
Whiting, Lorna e-F.....	Mapleton
Whiting, Margaret S-ss.....	Mapleton
Whitmore, Ruth ss.....	Grand Rapids, Mich.
Wilcox, Francis R. c-F.....	Lehi
Wilde, Lewis a-U.....	Spanish Fork
Williams, Lucille ss-S.....	Provo
Williams, Von Sec-2.....	Provo
Willis, M. R. Ex.....	Independence, Mo.
Willet, Lela ss-e-F.....	Pleasant Grove
Wilkins, Mrs. Jennie Ex.....	Provo
Wilkinson, Robert A. a-F.....	Ogden
Wilmot, Alzada e-F.....	Springville
Williams, Leon T. a-J.....	Spanish Fork
Williams, J. Stewart a-J.....	Provo
Willoughby, L. Ex.....	Atlanta, Ga.
Winder, Mary ss.....	American Fork
Wing, John H. a-F.....	Lehi
Wing, Norman a-So.....	American Fork
Winget, Marguerite e-F.....	Monroe
Winsor, A. P. Ex.....	Modesto, Calif.
Winters, Vern S. Ex.....	Mt. Pleasant
Wintle, Eluora Ex.....	Ogden
Witt, Millie ss.....	Heber
Witbeck, Martin ss.....	Gunnison
Wixom, Lyla e-F.....	Fillmore
Wixom, Thelma e-F.....	Fillmore
Wood, A. G. Ex.....	Atlanta, Ga.
Wood, Winnie ss.....	Vernal
Woodward, Mrs. H. M. Ex.....	Provo
Woodward, G. G. Ex.....	Independence, Mo.
Woodward, Maleta Sp-V.....	Provo
Woolley, Iona ss-a-So.....	Vernal
Woolley, Mary ss-a-S.....	Ogden
Workman, Clifford Ex.....	Tacoma, Wash.
Wright, Clifford L. e-F.....	Pleasant Grove
Wright, Hattie Ex.....	Provo
Wright, Leatha ss.....	Hinckley
Wright, Lelland a-F.....	Hinckley
Wright, Ruby e-U.....	Charleston

Wright, Sarah a-U.....	Provo
Wright, Vern a-U.....	Charleston
Wunderly, Olga Ex.....	Provo
Young, Fern ss.....	Huntington
Young, Chas. Edwin a-U.....	Provo
Young, Effie e-F.....	Mona
Young, Ivan a-U.....	Huntington
Young, Zelma e-F.....	Mona
Zabriskie, Olin Ex.....	Springville

SUMMARY OF STUDENTS, 1921-1922

Seniors	38
Juniors	54
Sophomores	104
Freshmen	397
Unclassified	70
	<hr/>
	666
Summer School, 1921.....	244
Secondary School	274
Elementary Training School.....	236
Correspondence and Extension.....	289
	<hr/>
	1,709
Less number counted twice.....	159
	<hr/>
Total receiving institutional credit.....	1550

INDEX

	Page
Accommodations	26
Accounting and Business Administration	39
Admission	27
Agricultural Club	20
Agricultural Engineering	43
Agronomy	44
Animal Husbandry	47
Art	49, 200
Art Service Club	20
Art Supervision Association	21
Astronomy	95
Authorities of the University	6
Auto Mechanics	108
Bachelor Degrees	31
Biology	57
Botany	57
B. Y. U. Women's Organization	21
Calendar	3, 4
Chemistry	62
Church School Officers	5
Classification of Students	29
Clothing and Textiles	65
Clubs and Societies	20
College of Applied Sciences	35
College of Arts and Sciences	36
College of Commerce and Business Administration.....	36
College of Education	37
Committees, Standing	14
Commerce and Business	200
Course Divisions	29
Correspondence Instruction	197
Courses of Instruction	39
Credits	30
Departments of Instruction	19
Discipline	26
Drafting	68
Dramatic Art	180
Drama League, The	21
Economics	71, 200
Education	200
Educational Administration	73
Educational Sociology	76

	Page
Election of Studies	29
Elementary Teaching	77
Elementary Training School	207, 210
English	82, 202
Enrollment of Students	213
Extension Division, The	195
Faculty	7
Fees	28, 199
Finance and Banking	87, 204
French	111
French, German and Spanish Clubs.....	21
Foods and Nutrition	89
General Requirements	27
Geology and Geography	91, 94, 202
German	116, 205
Graduate Club	23
Graduate Division	33
Graduates	211
Graduation	31
Health Work	203
History of University	15
History	96, 203
Home Economics	206
Home Economics Club	22
Horticulture	101
Household Administration	105
Ironwork	108
Instrumental Music	138
Latin	118
Leadership Week	198
Library	27
Literary Club, The	22
Loan Funds	24
Lyceum Course	23
Mathematics	106, 203
Mechanics	108
Modern Languages and Latin	111, 204
Music	119
Music Society	22
Office Practice	154
Organization of University	19
Philosophy of Education	172
Phonetics	119
Physical Education	153
Physics	162
Political Science	167
Psychology	176
Public Speaking and Dramatic Art	178, 206

	Page
Scholarships and Awards	23
Secondary Teaching	182
Secondary Training School	207, 208
Social Service	198
Sociology	184
Spanish	114, 205
Student Body, The	25
Theology	185, 206
Theory of Music	127
Training Schools	207
Vocal Music	119
Vocational Education	194
Woodwork	109
Young Commerical Club	22
Zoology	60

